

# OPTICOM TECHNOLOGIES INC.

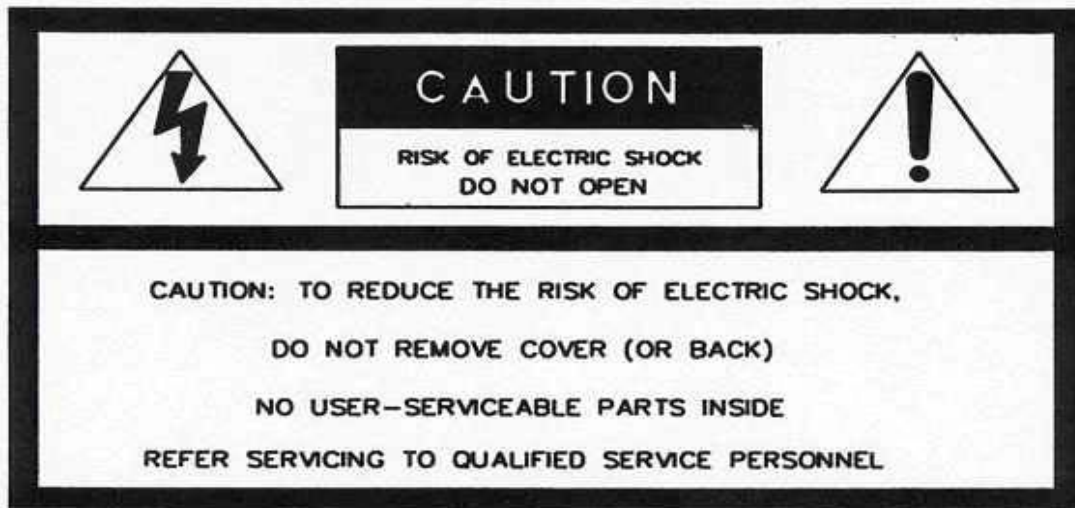
## Vista "L"ite Series DVR *Users Guide*



*June 2004*

# Opticom Technologies Inc. "L" Series DVR

## SAFETY PRECAUTIONS



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance

The Lightning flash with arrowhead symbol within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

# Opticom Technologies Inc. “L” Series DVR

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## 1. About the User's Guide

This User's Guide is designed for end users, installers and technical support.

- . • End User : If a user is able to perform basic operations or has basic knowledge about computers, he/she can understand and use most of the functionality of the DVR by simply following the instructions in this User's Guide.
- . • Installer : If an installer has basic knowledge of the hardware structure of a DVR, he/she can easily understand most of the Vista "L" Series DVR's functionality by following the instructions in the User's Guide and he/she will be able to set the system according to the end user's request.

\* This User's Manual does not include explanations of peripheral equipment such as cameras, pan/tilt equipment, monitors, computers, network equipment, etc.

- Technical Support : Tech support can understand most of the functionality if he/she follows the instruction of the User's Guide for the Vista "L" Series .DVR, and he/she can offer advice to the end user or installer on their inquiries.

\* This User's Manual does not include explanations of peripheral equipment such as cameras, pan/tilt equipment, monitors, computers, network equipment, etc.

This User's Guide explains how to set-up and operate the product from the moment the box is opened.

The following is a list of the contents of the guide

- Equipment and System Environment Setup and Safety Instructions
- Main Server Application (Vista "L" Series DVR) Operations
- Client Application (Vista "L" Series Remote PC) Setup and Operations
- Warranty and Responsibility

# Opticom Technologies Inc. “L” Series DVR

## 2. Introduction

The Vista “L” Series DVR series is an advanced digital video monitoring and recording system that converts analog video signals into digital data, displays the digital video on computer monitors in real time, stores it onto permanent storage such as hard disks with high compression ratio, and transmits it through the Internet. It also generates credible alarms using state-of-the-art image processing techniques. The Vista “L” Series features are:

- . • Various split display modes (1, 4, 9, 16 equally split display or 6, 8, 10, 17 focused split display)
- . • Easy select & backup facilities -still image and AVI video clip (Neo Drive, CD-ROM, Removable Hard Disk, DVD, etc.)
- . • Convenient search features – our patented VisualCue® recording map shows a color-coded recording history divided per camera. At a glance our patented VisualCue® recording provides an easy way of searching with date/time/camera/event. Our state-of-the-art Instant Visual Check scrollbar enables random access with instant visual checking and the panoramic temporal search shows snap-shots for specific camera to analyze every scene. 2-times and 4-times fast video replay are also available.
- . • Remote pan/tilt/zoom control and remote program configuration – the Vista “L” Series client program fully controls the Vista “L” Series server program through the Internet.
- . • Remote video monitoring in real-time, remote searching and replaying through the Internet.
- . • Highly compressed recording of high resolution images (320×240 or 640×480, compressed up to 1~6 KB per frame)
- . • E-mail alarm – E-mails are sent when there is motion in front of the camera or sensors. Since the e-mail contains the image taken at the time, the user can discern what was happening. The e-mail can be transferred to a mobile phone if there is an E-mail-to-Mobile link.

The strengths of the Vista “L” Series are:

- Non-stop operation along with patented technologies.
- Anti-Frag® File System prevents disk fragmentation from frequent hard disk writes.
- Watchdog Function continuously checks up the system and recovers it from unexpected system failure.
- The 10-Segment Reliability Test Program guarantees highly reliable products.

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- Rapid and flexible customization capability and high compatibility with analog CCTV systems. -Object-oriented programming and component software technology enable rapid completely reflecting customer requirements.
- High compatibility with analog CCTV systems promotes the reuse of existing analog CCTV equipment.
- User-friendly and efficient working environment.
- Various split-screen modes facilitate intensive and focused monitoring.
- Visual metaphor functions such as VisualCue®, Temporal Panorama, and Slide Bar control enable fast and powerful search.
- Video clips and still images of interest can be stored as a backup in well-known formats on various media such as Neo Drive, CD-RW, Removable Hard Disk, DVD-RW, DAT, and analog video.
- Real-time remote monitoring and control through the Internet.
- Network-version client software enables real-time remote monitoring and searching, remote pan/tilt/zoom control, and remote configuration.
- Web-version client software enables real-time remote monitoring and searching, remote pan/tilt/zoom control with only a web browser.
- High-speed display, high-performance compression, and anti-forgery watermark adoption
- DMA data transfer and AGP enable high-speed real-time video display.
- Our unique Adaptive MPEG-4 algorithm for video data compression remarkably prolongs the recording period.
- Our efficient and fast watermarking technology protects the recorded video against malicious forgery.

# Opticom Technologies Inc. “L” Series DVR

## 3. Hardware Setup

### 3.11 Unpacking (Board Type)

#### 3.1.1 System Requirements

	Minimum Requirement	Recommended
CPU	Intel Celeron 1.7 GHz equivalent	Intel P-4 1.8 GHz or faster
O/S	Windows 2000 series, Windows XP series	
Memory	128 MB	256MB or more
HDD Space	40 GB	80 GB or more
VGA Card	ATI Radeon 7000 64MB or higher DDR	

#### 3.1.2 Package Content Per Model

		Capture Board Type Model						
		VSL430	VSL1630	VSL16120	VSL16240	VSL16480	VSL16480B	VSL16480C
Intel CPU compatible chipset	Intel i845PE	OK	OK	OK	OK	OK	OK	OK
	Intel i865PE	OK	OK	OK	OK	OK	OK	OK
	Intel i875P	OK	OK	OK	OK	OK	OK	OK
	VIA P4X400	OK	OK	N/A	N/A	N/A	N/A	N/A
	VIA PT800	OK	OK	N/A	N/A	N/A	N/A	N/A
	SiS 645	OK	OK	OK	OK	N/A	N/A	N/A
	SiS 658	OK	OK	OK	OK	OK	OK	OK
AMD CPU compatible chipset	SiS 748	OK	OK	OK	OK	OK	OK	OK
	VIA KT400	OK	OK	OK	OK	OK	OK	OK
	VIA KT600	OK	OK	OK	OK	OK	OK	OK
VGA Card	ATI Radeon 7000 SDR 32M	OK	OK	OK	OK	OK	OK	OK
	ATI Radeon 7000 DDR 32M	OK	OK	OK	OK	OK	OK	OK
	ATI Radeon 7500 DDR 128M	OK	OK	OK	OK	OK	OK	OK





**Contents of the package can be changed without notice.**



- \* The best comparability : Intel CPU and Intel Chipset Motherboard
- \* It is strongly recommended to use ATI comparable VGA cards.  
Depending on the model, it will not provide proper performance.  
You must set system resolution as 1024×768 with 32bit color quality  
before running application.

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### 3.2 Unpacking (System Type)



DVR Main System



Handles



Application CD



Keyboard



Power Cable



Manual



Mouse



Computer Case Keys



**Caution !!**

**This unit weighs over 50lbs.**

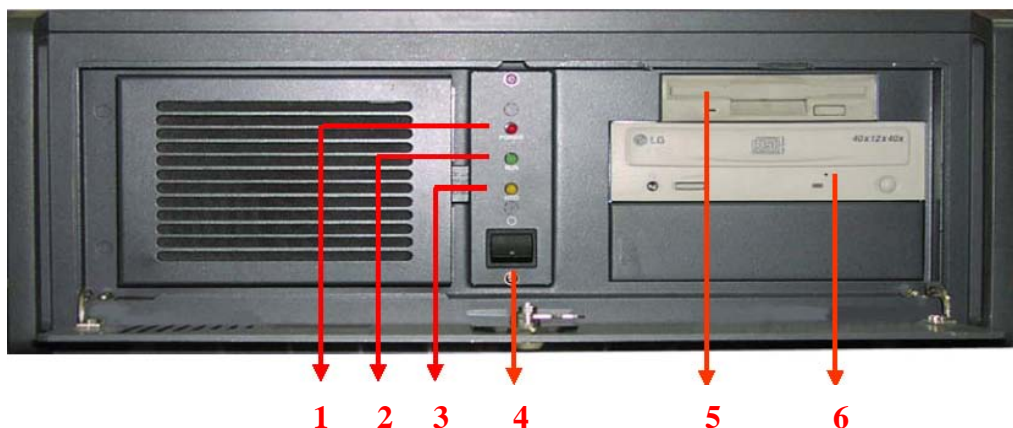
**Assemble handles with supplied screws and use handle when moving the unit.**



**Contents of the package can be changed without notice.**

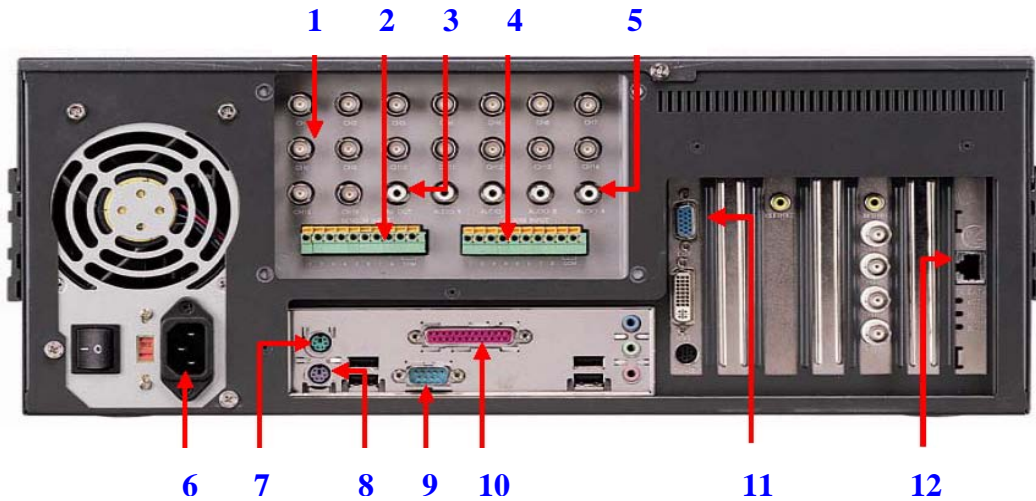
## Opticom Technologies Inc. “L” Series DVR

### 3.3 Front of the DVR System



- 1) Power LED: Indicates if the power is ON?OFF.
- 2) Run LED: Displays the status of the system.
- 3) HDD(Hard Disk Drive) LED: A lamp indicating the operation of the HDD
- 4) Power Switch: Turns the DVR system on or off.
- 5) FDD: Image Retrieval (Option)
- 6) CD-RW: Recover DVR system and back up video (Option)

### 3.4 Back of the DVR System



- |                          |   |
|--------------------------|---|
| 1) Camera Inputs 1 – 16  | 7) Mouse Connector                        |
| 2) Sensor Connections    | 8) Keyboard Connector                     |
| 3) A/V Out Connector     | 9) Serial Communication Port (Com1, Com2) |
| 4) Alarm Out Connector   | 10) Parallel Port                         |
| 5) Audio Input Connector | 11) Video Connector                       |
| 6) Power Plug            | 12) Lan Connection                        |

### 3.5 Before You Start

Make sure you have access to three standard grounded outlets and a flat level surface to support the main system. Proper grounding is essential for user safety and proper DVR operation. Before you install the Vista “L” Series DVR properly, you should prepare the following equipment:

- ☞ SVGA video monitor
- ☞ CCTV cameras
- ☞ Coaxial cable

### CAUTIONS

1. **1. This system is not explosion-proof. Therefore, it is not to be used in the presence of flammable material.**
2. **2. Proper use of this device depends on careful reading of all instructions and labels.**
3. **3. Keyboard and mouse connectors to the main system**

Connect the keyboard and mouse to the back of the main system.

DVR system may not be operated if the Key Board and Mouse are not connected proper way.

**4. Video monitor cable to the main system**

Connect the video monitor cable to the main system by inserting one end of the 9-pin connecting cable into the back of the main system.

**5. Video monitor cable to video monitor**

Connect the video monitor cable to the video monitor by inserting one end of the 9-pin connecting cable into the back of the video monitor.

**6. Coaxial video cable to the main system**

Connect the coaxial video cable to the main system by inserting one end of the BNC connecting cable into the back of the main system.

**7. Coaxial video cable to the cameras**

Connect the coaxial video cable to the cameras by inserting one end of the BNC connecting cable into the back of the camera.

**8. Video monitor power cord to outlet**

Plug the video monitor power cord into a grounded wall outlet.

**9. Main system power cord to outlet**

Connect the main system power cord to a grounded wall outlet



**The power supply is set AC 115V as a factory setting. When this unit is used with AC 230V, the power supply mode must be changed into 230V by changing the switch in the back side.**

**The fire, electric shock and explosion may occur if 230V of power is supplied when the power mode is set as 115V.**

# Opticom Technologies Inc. “L” Series DVR

## 4. System Environment Setting

### 4.1. Power On

- 1) After setting up the hardware, turn on the power switches to the main system, monitor, camera, and other devices connected with the Vista “L” Series DVR. Wait a few moments for the display to appear. The system performs a self-test and displays a message if any errors are found. Call the OPTICOM TECHNOLOGIES Technical Support.

if error messages are displayed (E-mail: [techsupport@opticomtech.com](mailto:techsupport@opticomtech.com)),

**Phone: 1-888-367-2288**

When the self-test is finished, the main screen appears.

The Vista “L” Series model determines the number of video windows in the main screen.

For example, Displays 16CH video windows. The main screen display that you first see when you power up is:



Please check your power supply mode before “power on”

Please check your power supply mode before “power on”



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## 5. Current Time Setting

Because the Vista “L” Series DVR System is using the Windows system time, the time already set at the factory needs to be set again with the appropriate time according to the user’s geographic location.

Step 1) Click Settings Button Step 4) “System Time Setup “ Click



Step 2) Enter Password (default -“0”) and click “Enter” Step 5) Set the time for the location Press “Apply” and “OK” to finish



# Opticom Technologies Inc. “L” Series DVR

Step 3) “Data Storage Setup” Button Click



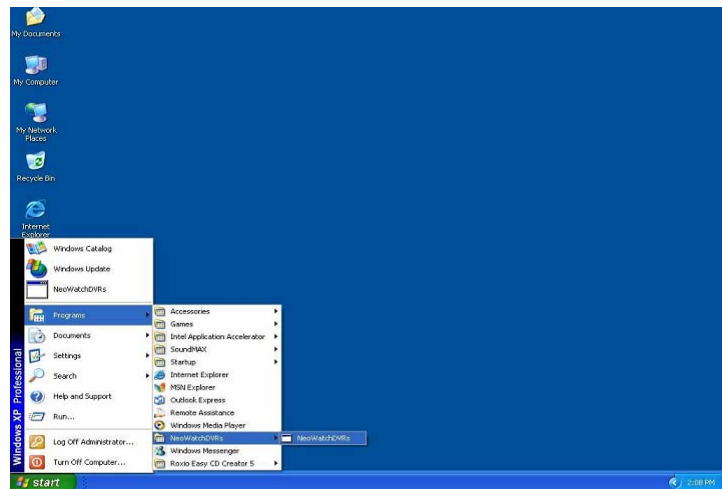
**System time cannot be changed  
once Data Allocation is set.  
Recorded Data must be deleted in  
order to change system time.**

# Opticom Technologies Inc. “L” Series DVR

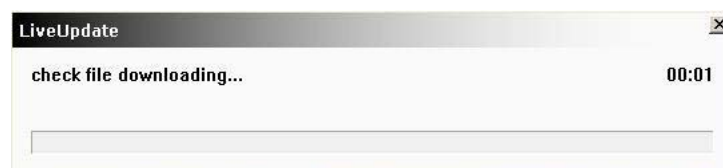
## 6. Program Start

Step 1) In the Windows main screen, click “Start” → “Programs →

“Vista “L” Series DVR” Click



Step 2) Auto Update



Step 3) Main Screen



# Opticom Technologies Inc. “L” Series DVR

## 7. Storage Configuration

: Add or delete allocation space of the hard drive for recorded video data.

The diagram illustrates the process of configuring storage on the Opticom Technologies Inc. "L" Series DVR. It shows a button labeled "Data Storage Setup" with an arrow pointing to a text box that says "Click the 'Data Storage Setup' button in the main setting screen". Below this, a screenshot of the "STORAGE CONFIGURATION" screen is shown with various fields and buttons annotated with red arrows and labels.

Annotations on the screenshot include:

- \* Available Hard Drives (pointing to the "Drv" column header)
- \* Total Hard Drive Space (pointing to the "Total[Mb]" column header)
- \* Available Hard Drive Space in MB (pointing to the "Available" column header)
- \* Available Hard Drive Space percentage (pointing to the "Available" column header)
- \* Allocated Hard Drive Space (pointing to the "AllocChunk" column header)
- \* Used Hard Drive Space (pointing to the "UsedChunk" column header)
- \* Hard Drive Space available for allocation (pointing to the "Allocable" column header)

The screenshot also shows a table with the following data:

Drv	Name	Total[Mb]	Available	Available	AllocChunk	UsedChunk	Allocable
C:		38,162	36,414	95 %	0	0	36,414

Below the table, there are fields for "Allocate Space" (34,900) and "Free Space" (1,514), with an "ADD" button. There is also a "HDD Overwrite Option" checkbox, which is currently unchecked. At the bottom of the screen, there are several buttons: "Data Storage Setup", "System Setup", "Camera Setup", "Schedule Setup", "Network Setup", "ID Setup", "System Time Setup", and "DEL".

\* To overwrite hard disk drive, check this box.

If this box is not checked, recording is stopped after HDD gets full (100%).

# Opticom Technologies Inc. “L” Series DVR

## 7.1 Select Hard Drive Space for Recording



**You must allocate hard drive space before recording.**



**Step 2) Enter Password (default - “0”) and click “Enter”**



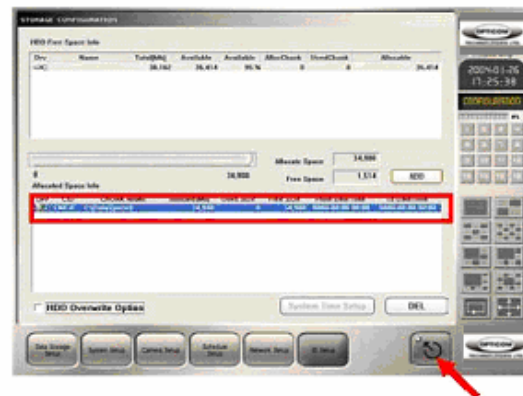
**Step 3) Click on “Data Storage Setup” button**



**Step 4) Select desired hard drive and move the slider for desired allocated space. Then click “ADD”**



**Step 5) Confirm allocation in the window below. Click the exit button to go back to the settings screen.**



**One hard drive can have up to 3 allocated spaces.**

# Opticom Technologies Inc. “L” Series DVR

## 7.2 Delete Allocated Hard Drive Space



**- Warning -**

Deleting allocation space will delete all recorded video data.

Step 1) Click Setting Button



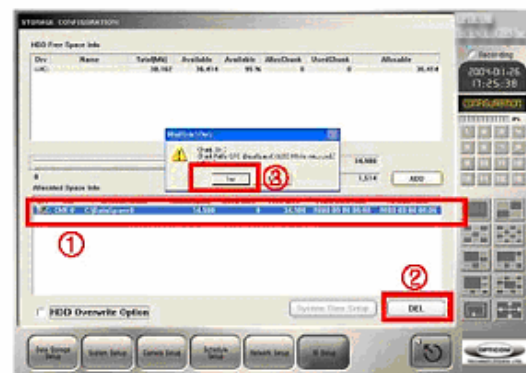
Step 2) Enter Password (default - “0”) and click “Enter”



Step 3) “Data Storage Setup” Button Click



click “DEL”. Click “OK” to confirm delete of the allocated space.



Step 5) Click on the exit button to exit to the Settings Screen.



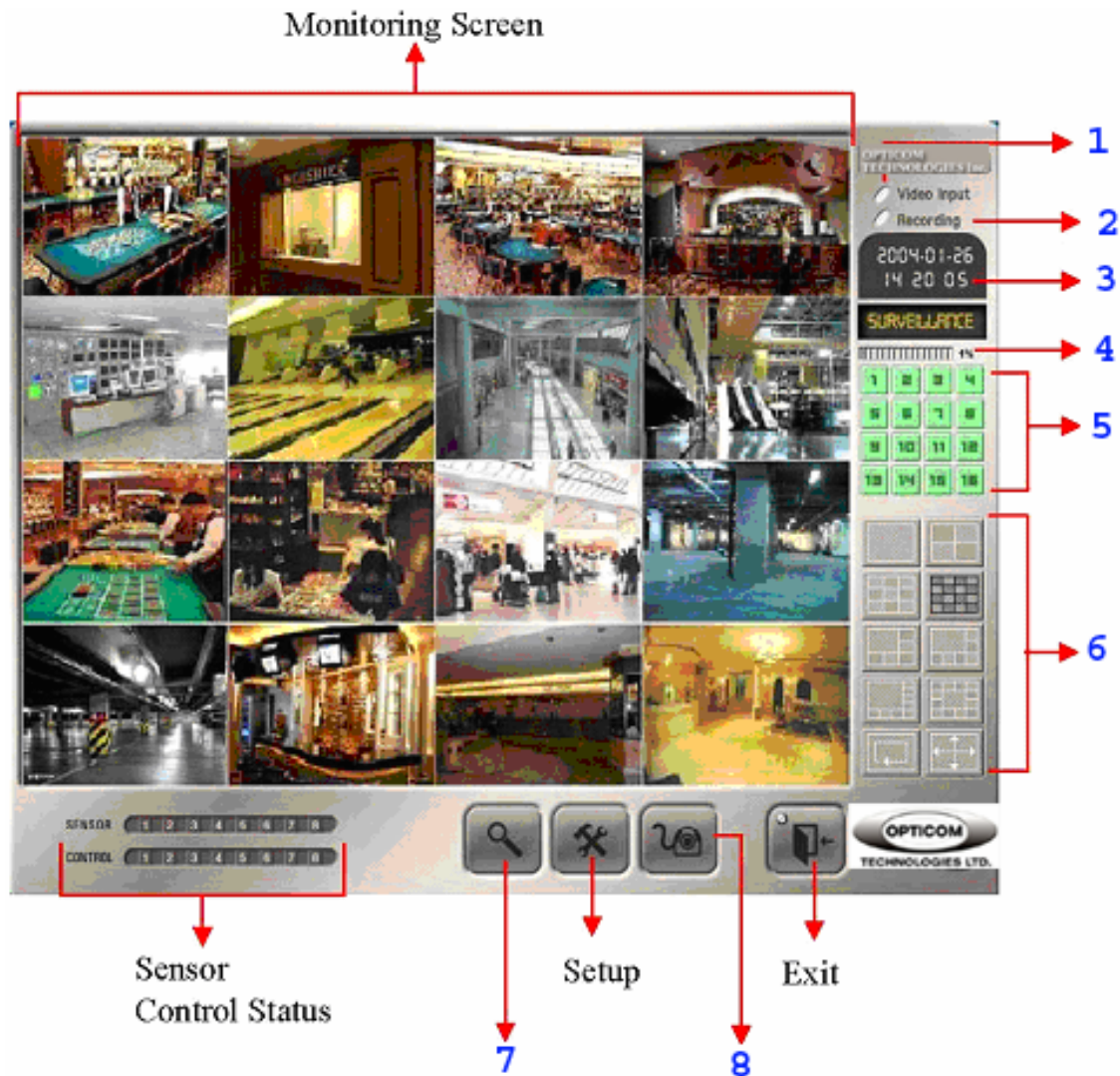
Follow Section 7.1 to set hard drive allocation space.



# Opticom Technologies Inc. “L” Series DVR

## 8. Real-Time Monitoring

### 8.1 Real-Time Monitoring Screen

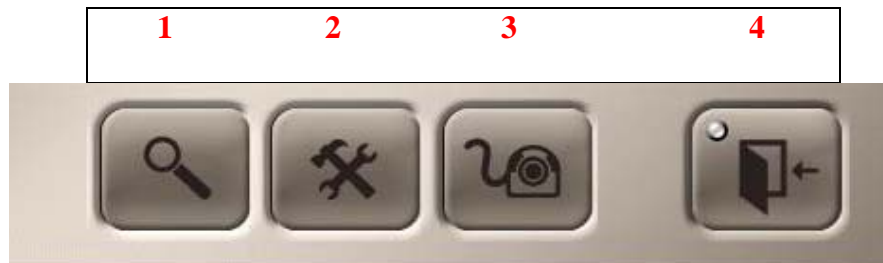


#1) Video Input Status.  
#2) Recording Status.  
#3) Date/Time Mode.  
#4) HDD Capacity Indicator.

#5) Camera Display Status.  
#6) Screen Split  
#7) Video Search.  
#8) Pan/Tilt Control.

# Opticom Technologies Inc. “L” Series DVR

## 8.2 Main Buttons



### 1 Video Search

Click to search recorded video data. There are two types of search: general search and detailed search.

### 2 Setup

Click to setup the Vista L Series DVR. There are 6 types of system settings.

### 3 Pan/Tilt Control

Click to move the camera up/down, left/right, to focus, to enlarge to reduce.

### 4 Exit

Terminate the main program or the system. Type password to confirm the termination.

System Reboot: Terminate application and reboot system

Exit Application: terminate the Vista L Series DVR server and return to windows.

System Poweroff: Exit application and power down the system



[Password Confirm]



[Termination Options]

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## 8.3 Current Time and Status Display



### Current Time and Date

Current time and date should be setup correctly for accurate video recording.

The playback of the video is performed according to this time and date.

In order to setup date and time, use either the BIOS setup before system booting or the date/time applet in the control panel of Windows.



If current date and time are adjusted, recorded video data could be erased wholly or partially. Be careful when the date and time are adjusted.



During DVR operation, don't adjust the time and date.  
It may cause serious problems.  
Setup time and date only after terminating the Neo Watch DVR program.



### Current Operating Mode

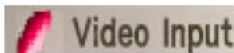
There are 5 operating modes in Neo Watch DVR.

- Surveillance Mode

- Playback & Search Mode - Detailed Search Mode - System Configuration Mode - Pan/Tilt Control Mode

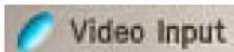


### HDD Capacity Indicator



Video Input

· Blinking Red – Irregular operation (video loss)

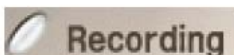


Video Input

· Blinking Blue – Regular operation

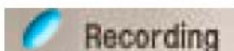


When this warning light is off, please check the video input signal.



Recording

· White - No recording or Irregular operation



Recording

· Blinking Blue - Recording

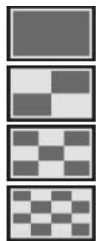
# Opticom Technologies Inc. “L” Series DVR

## 8.4 Split Screen Buttons



The selected split screen icon is green. According to the DVR model, available screen split modes are as follows:

### Equally Split Screen



1 View Display: a single view from one camera is shown

4 View Display: 4 views are shown

9 View Display: 9 views are shown

16 View Display: 16 views are shown



If you click the left mouse button on any view, the view becomes enlarged to 1 view mode. One more click will return to the original split mode.

### Focused Split Screen



1 + 5 View Display: 1 main view and 5 small views

1 + 7 View Display: 1 main view and 7 small views

1 + 9 View Display: 1 main view and 9 small views

1+16 View Display: 1 main view and 16 small views



If you click one of the small views, the small view becomes the main view. One more click on the small view returns to the original split mode.

### Alternating Display and Full Screen Display



Alternating Display: Active cameras alternately appear on the views



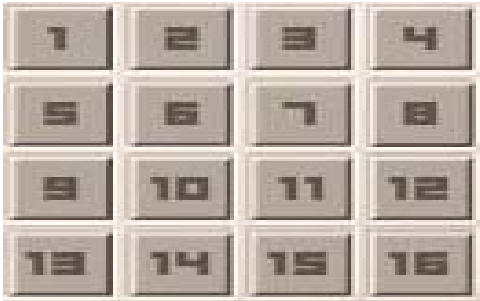
Full Screen Display: Menu bars disappear to show all the views wider



Clicking the right mouse button turns to “Full Screen Display” and another click of the right mouse button returns to the original display mode.

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## 8.5 Camera Selection/Status Buttons



In surveillance mode, each button corresponds to a camera. Clicking the camera button will display the corresponding camera in the main view.

In Playback and Search Mode, select a camera for detailed search.

### Camera Status Display

Camera status is displayed as follows.



**Active Camera &  
Main View  
Camera**

- This camera indicates that the camera is activated. In other words, the camera is currently displayed on the screen
- This icon indicates the camera is displayed in the Main View
- **(Gray with Black Number)**



**Inactive Camera**

- This icon indicates the camera is inactive. In other words the camera cannot be seen on the screen.
- **(Gray with White Number.**



**Recording Search  
& PTZ Camera**

- Icon turns to “Yellow” under recording search or PTZ.

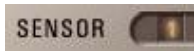


# Opticom Technologies Inc. “L” Series DVR

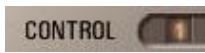
## 8.6 Sensor/Control Status Buttons



Displays the sensor input status and control output.



The light is on when the sensor input is activated. Active Sensor Input



The light is on when the control is activated. Active Control Output



Refer to the Camera and Sensor/Control Setting in the “System Setup”.

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## 9. Setting Password



Clicking the Setup button in the main monitoring screen allows the password input screen to appear.



Type password numbers and click “ENTER”.



Default password from the factory is “0”.



Click this button in order to change the password.

Click the “New Password” button, and the new password input box appears.



Maximum number of characters for password is 8.



Type the new password and type it again in the “confirm” box. The new password is now in place.

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## 10. Basic System Configuration



Click the “System Setup” button in the main settings screen.

**BASIC SYSTEM CONFIGURATION**

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Video Source:

E-mail Environment Setup:  Camera Rotation:  Second

Camera popup:  Second

**Analog Video Out Sequence**

SEL: C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16

Rotation Interval:  Second

**Sensor Configuration**

Sensor 1 Sensor 2 Sensor 3 Sensor 4

Sensor 5 Sensor 6 Sensor 7 Sensor 8

Sensor Name:

Sensor Type: ☒ Normal Open ☐ Normal Close

Please select to link alarm.

Alarm 1 Alarm 2 Alarm 3 Alarm 4

Alarm 5 Alarm 6 Alarm 7 Alarm 8

**Alarm Configuration**

Alarm 1 Alarm 2 Alarm 3 Alarm 4

Alarm 5 Alarm 6 Alarm 7 Alarm 8

Alarm Name:

Alarm Duration:  Second

**Alarm Wave Files**

Motion Detect:

Sensor Detect:

Video Input ☒ Recording ☒

2004-02-03 10:50:15

**CONFIGURATION**

1 2 3 4

5 6 7 8

9 10 11 12

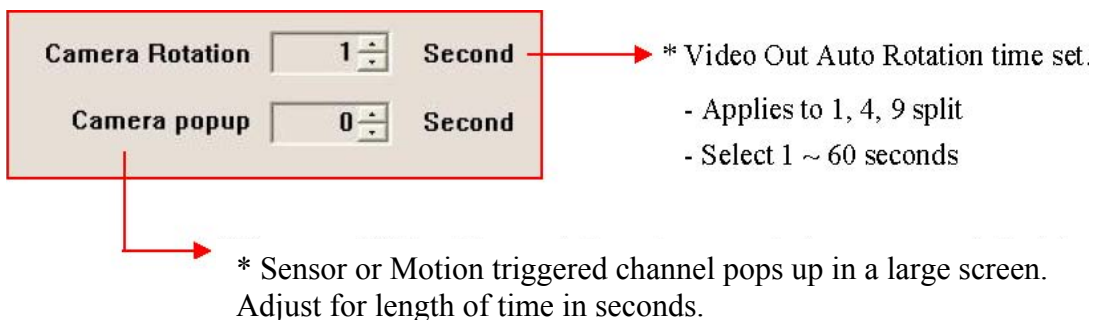
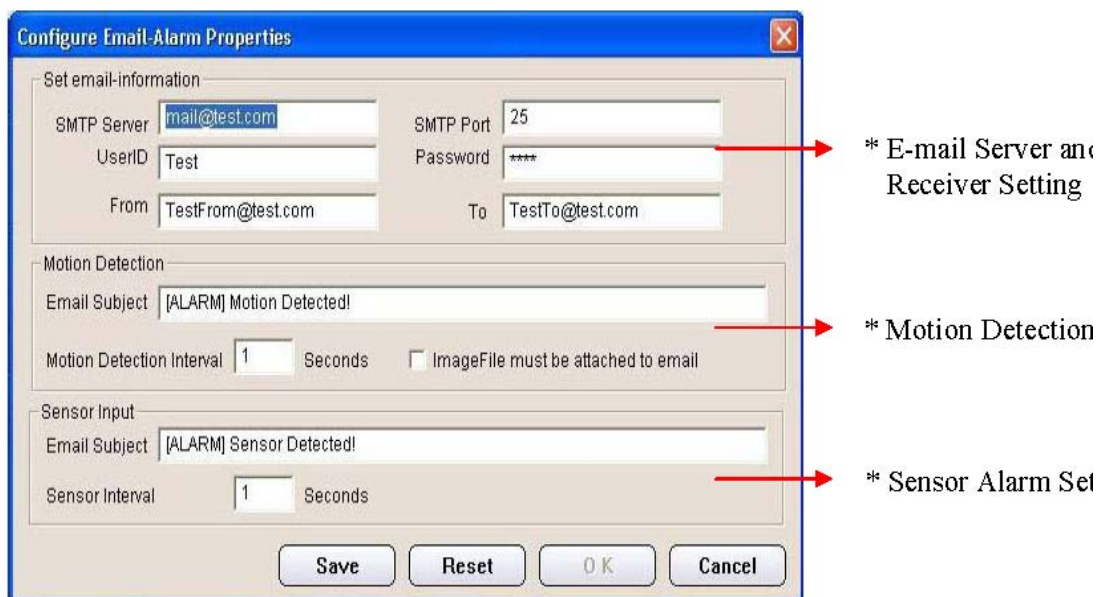
13 14 15 16

# Opticom Technologies Inc. “L” Series DVR

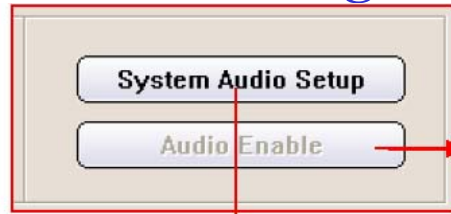
## 10.1 Video Source & E-mail Setup



Click

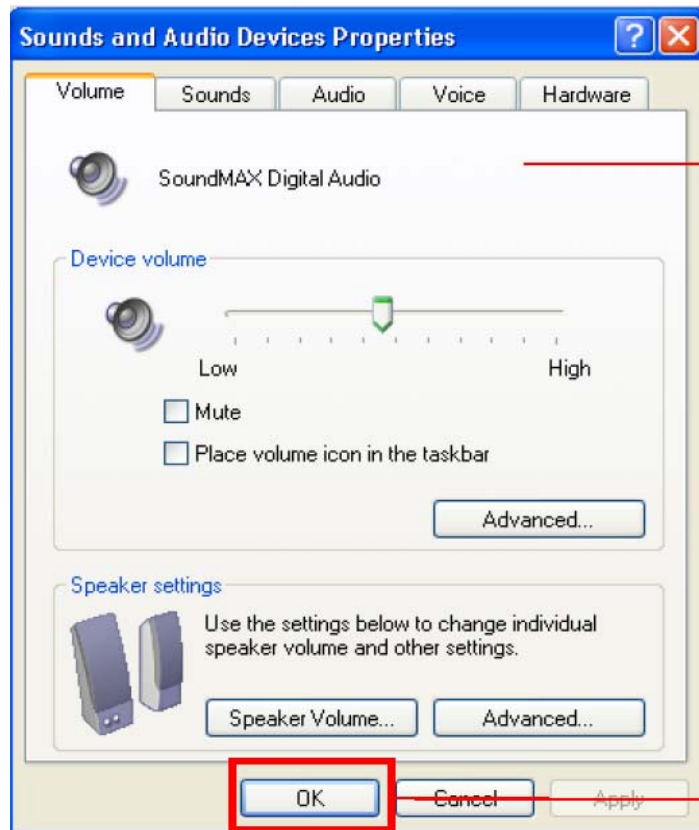


# Opticom Technologies Inc. “L” Series DVR



\* Select Audio Enable/Disabled

Click

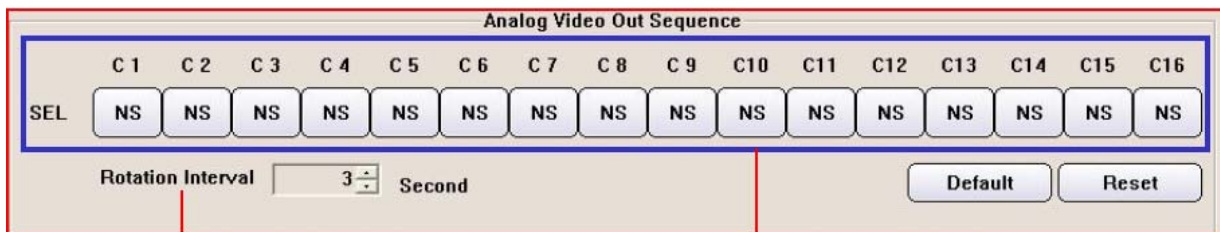


\*Windows Sound and Audio Devices Properties open up.

Click “OK” to exit.

# Opticom Technologies Inc. “L” Series DVR

## 10.4 Analog Video Out Setting

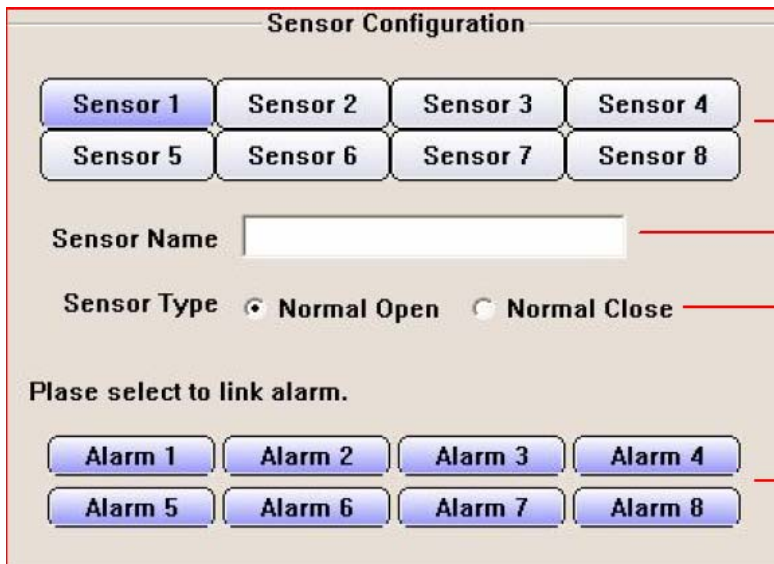


The 'Analog Video Out Sequence' window features a grid of 16 camera selection buttons labeled C1 through C16. Each button has a 'SEL' label and a dropdown menu currently set to 'NS'. Below the grid, there is a 'Rotation Interval' field set to '3' with a unit of 'Second'. To the right of the interval field are 'Default' and 'Reset' buttons. Red arrows point from the 'Rotation Interval' field and the camera selection buttons to their respective explanatory text blocks.

\* Analog Video out Rotation Interval

\* Select cameras to view through analog video out. -Default : Select all cameras -Reset : Unselect all cameras

## 10.5 Sensor & Link Alarm Setting



The 'Sensor Configuration' window includes a grid of 8 sensor buttons labeled 'Sensor 1' through 'Sensor 8'. Below this grid is a 'Sensor Name' text input field. Underneath the name field is the 'Sensor Type' section with two radio buttons: 'Normal Open' (selected) and 'Normal Close'. At the bottom, there is a section titled 'Plase select to link alarm.' (note the typo) containing a grid of 8 alarm buttons labeled 'Alarm 1' through 'Alarm 8'. Red arrows point from the sensor grid, the 'Sensor Name' field, the 'Sensor Type' radio buttons, and the alarm grid to their respective explanatory text blocks.

Connect up to 8 sensors.

\*Name individual sensors.

\* Select sensor type.

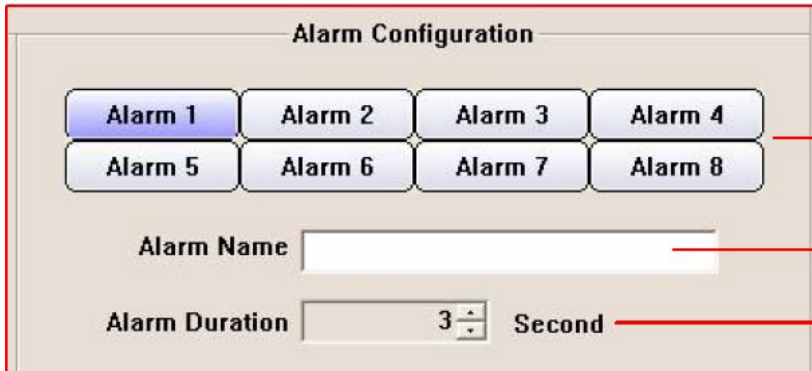
\*Select alarms trigger when sensor is triggered.

**VSL430-cs, VSL1630-cs, VSL16480-cs only support 4 alarms.**



# Opticom Technologies Inc. “L” Series DVR

## 10.6 Alarm Setting



The 'Alarm Configuration' dialog box contains a grid of eight buttons labeled 'Alarm 1' through 'Alarm 8'. Below the grid is a text field labeled 'Alarm Name'. At the bottom, there is a 'Alarm Duration' field with a numeric spinner set to '3' and the unit 'Second'.

Connect up to 8 alarms.

Name individual alarms.

Select duration of the alarm.  
(1 ~ 180 seconds)

## 10.7 Alarm Wave File Setting

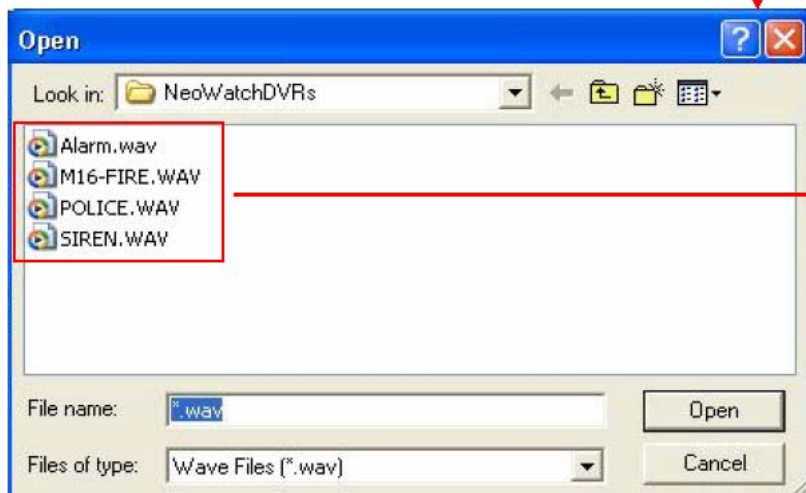


The 'Alarm Wave Files' dialog box has two rows: 'Motion Detect' and 'Sensor Detect', each with a text field and a button with three dots (the file selection icon). A blue box highlights these two buttons.

Select wave file to be played  
for motion detection.

Select wav file to be played  
for sensor detection.

Click



The 'Open' file dialog box shows the 'Look in:' field set to 'NeoWatchDVRs'. A list of files is displayed: 'Alarm.wav', 'M16-FIRE.WAV', 'POLICE.WAV', and 'SIREN.WAV'. The 'File name:' field at the bottom contains '\*.wav' and the 'Files of type:' dropdown is set to 'Wave Files (\*.wav)'. A red box highlights the list of files.

4 wav files are included in the  
default system. You can select  
other wav files in other  
locations if desired.

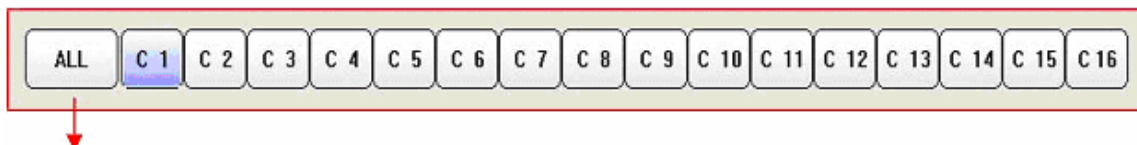
# Opticom Technologies Inc. “L” Series DVR

## 11. Video Channel Configuration

: Settings for Motion Detect, Recording Quality, Camera Display, PTZ, Alarm Sound and E-mail.



Click “Camera Setup” button in the main setting screen



\* Click “ALL” button to select or un-select all cameras.



# Opticom Technologies Inc. “L” Series DVR

## 11.1 Motion Detection Setting



Current view of selected camera.

Set motion detection sensitivity and region.



Motion detection region application size.



(PEN size: PEN1 < PEN2 < PEN3)

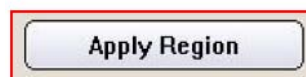
Use left mouse button to apply region and right mouse button to erase region.



Show/Hide motion detection region on the view screen.



Remove all previous regions.



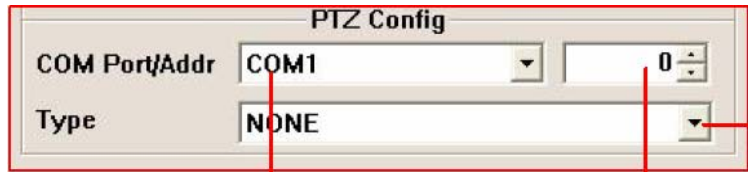
Apply current region setting.



Sensitivity ( 0 ~ 10 )

# Opticom Technologies Inc. “L” Series DVR

## 11.2 PTZ Configuration



The PTZ Config dialog box contains the following fields:

- COM Port/Addr:** A dropdown menu showing "COM1" and a numeric input field showing "0".
- Type:** A dropdown menu showing "NONE".

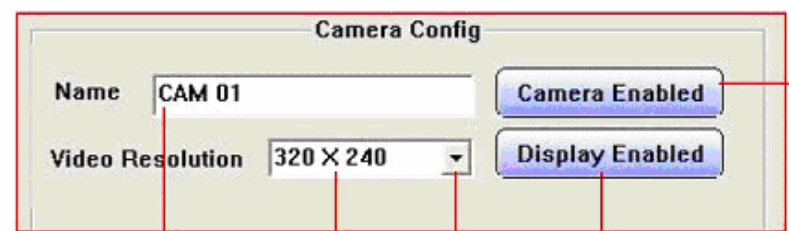
Red arrows point from the "COM1" dropdown to the text "\* Select connected port.", from the "0" input field to the text "\* Select PTZ address", and from the "Type" dropdown to the text "\* Select PTZ type".

\* Select connected port. \* Select PTZ address



Different PTZ cameras have different protocols. Camera's PTZ control may not operate properly if not found in the default camera list.

## 11.3 Camera Configuration Setting




The Camera Config dialog box contains the following fields:

- Name:** A text input field showing "CAM 01".
- Video Resolution:** A dropdown menu showing "320 X 240".
- Camera Enabled:** A button.
- Display Enabled:** A button.

Red arrows point from the "Name" field to the text "\* Enter name of the camera.", from the "Video Resolution" dropdown to the text "\* Enter recording resolution.", from the "Camera Enabled" button to the text "\* Select Enabled/Disabled", and from the "Display Enabled" button to the text "\* Select Display Enabled/Disabled for covert camera operation.".

Click



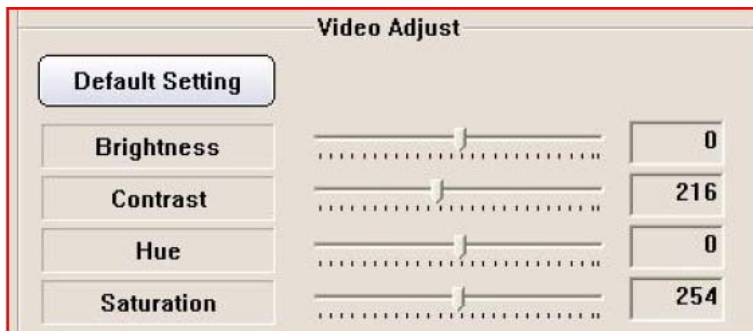
The expanded dropdown menu for Video Resolution shows the following options:

- 320 X 240
- 320 X 240
- 640 X 480

\* Choose recording resolution

# Opticom Technologies Inc. “L” Series DVR

## 11.4 Video Adjust



Adjust video display / recording properties.

## 11.5 Video Quality



Recording quality settings.

## 11.6 Alarm Sound & E-mail Link Setting



Enable Alarm Sound notification

Enable Email notification.

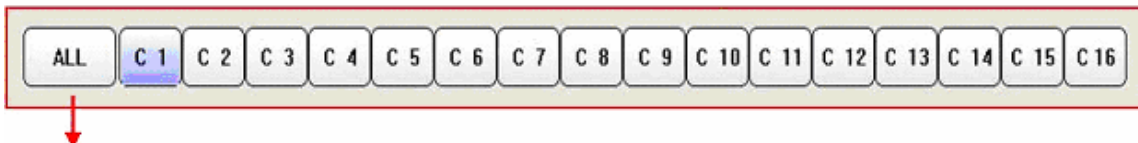
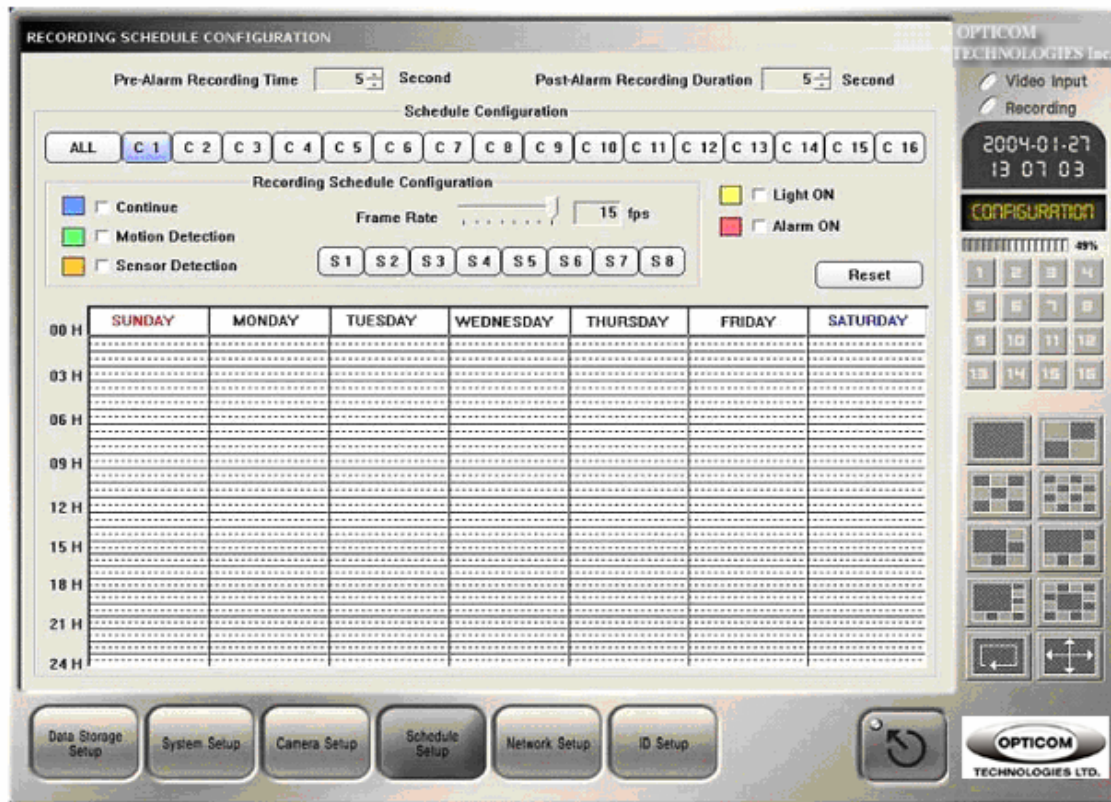
# Opticom Technologies Inc. “L” Series DVR

## 12. Recording Schedule Configuration

Setup recording schedule, recording frame rate, pre-alarm and post alarm.



Click “Schedule Setup” button in the main setting screen



\* Click “ALL” button to select or un-select all cameras.

# Opticom Technologies Inc. “L” Series DVR

## 12.1 Pre-Post Alarm Recording Time Setting

Pre-Alarm Recording Time	<input type="text" value="5"/>	Second	Post-Alarm Recording Duration	<input type="text" value="5"/>	Second
--------------------------	--------------------------------	--------	-------------------------------	--------------------------------	--------

\* When Motion or Sensor recording is selected, pre-alarm and post-alarm recording is possible up to 5 seconds.

**Pre-Post Alarm applies to all the cameras regardless of recording schedule.**



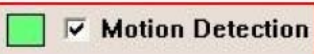
Pre-Post Alarm applies to all the cameras regardless of recording schedule.

## 12.2 Recording Schedule Configuration

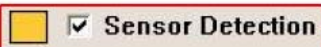
Recording Schedule Configuration								
<input type="checkbox"/> Continue	Frame Rate	<input type="text" value="15"/> fps	<input type="checkbox"/> Light ON					
<input type="checkbox"/> Motion Detection			<input type="checkbox"/> Alarm ON					
<input type="checkbox"/> Sensor Detection	S1	S2	S3	S4	S5	S6	S7	S8
			Reset					



If checked, selected camera and timeframe will be recorded continuously.



If checked and motion region is set, selected camera and timeframe will be recorded when motion is detected.



If checked, selected camera and timeframe will be recorded when applicable sensor is triggered,



Motion & Sensor Detection can be checked together for recording under either conditions.

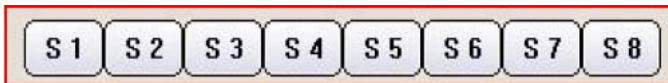
# Opticom Technologies Inc. “L” Series DVR



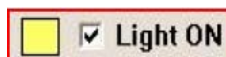
→ \* Recording frame rate setting for that particular camera.



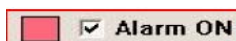
Maximum frame rate of each camera is different based on the system model. Higher frame rate can be obtained if unnecessary cameras are disabled.



→ Sensor connected to the cameras.



→ If external light is attached to the camera, the light will be powered on selected camera and timeframe.



→ Alarm Sound and Email notification will operate when motion or Sensor is detected.  
( **Alarm Sound & Email need to be setup beforehand.** )



→ Click “Reset” to clear all recording schedules.



# Opticom Technologies Inc. “L” Series DVR



## **\* READ BEFORE SETTING SCHEDULE \***

- Click and drag desired record timeframe to set schedule.
- Selectable by camera, day of the week and 30 minute intervals.
- To review recording schedule:

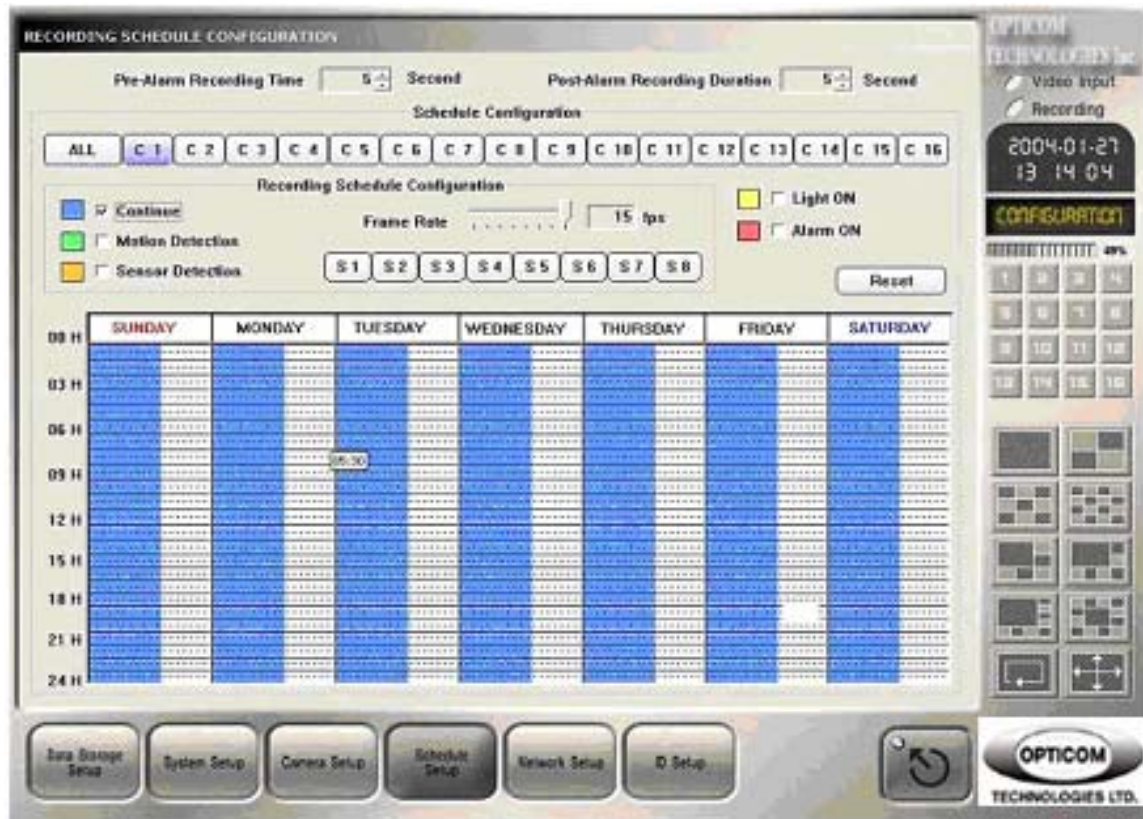
Double click within timetable to change the mouse pointer to magnifying glass. When you mouse over an area where recording is scheduled, the configuration will be displayed. The magnifying glass mouse pointer can only be moved within the time table. Double click again to exit schedule view mode.

- Use the right mouse button to delete 30 minute sections at a time.

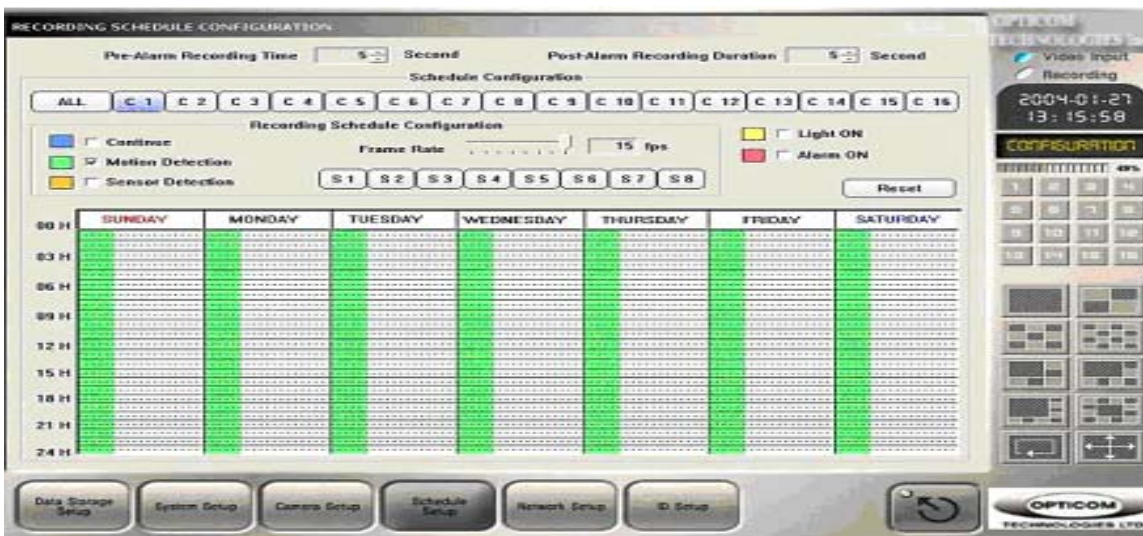


# Opticom Technologies Inc. “L” Series DVR

## 12.3 Recording Schedule example Continuous Recording



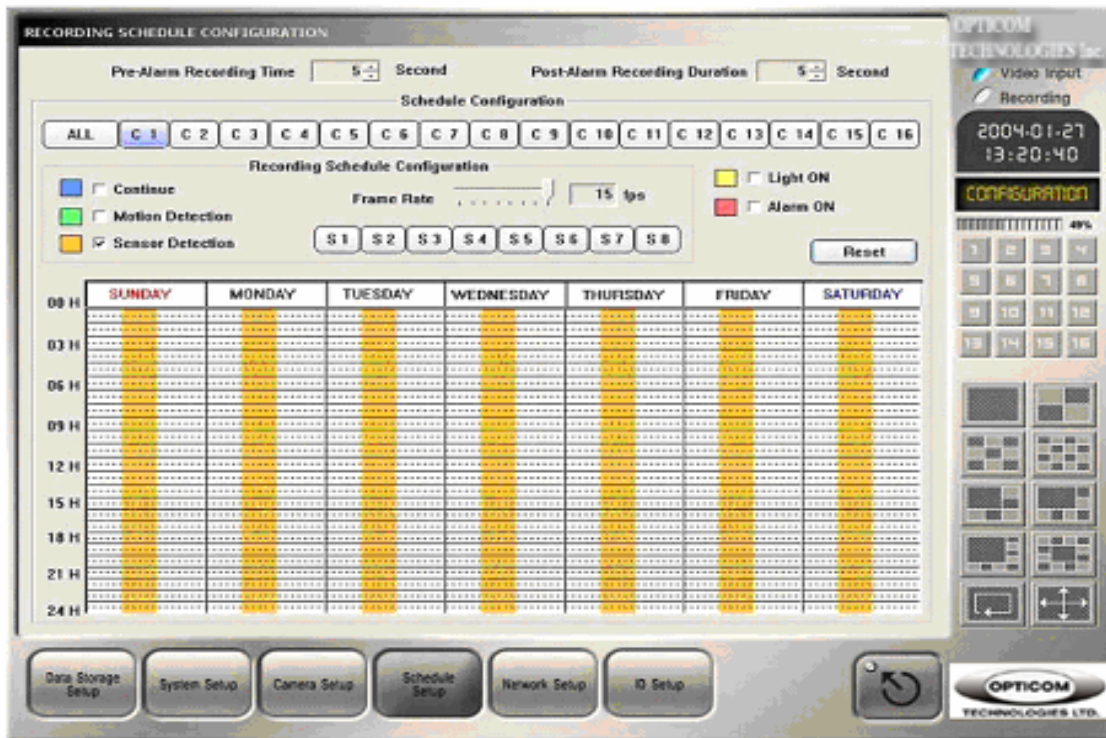
## 2) Motion Detection Recording Schedule



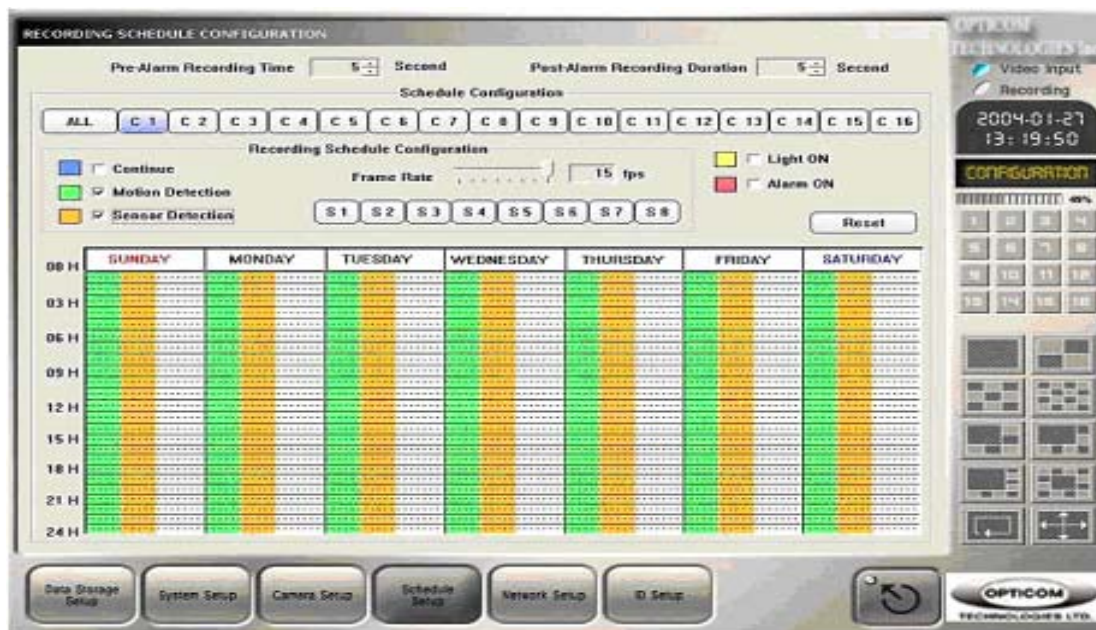


# Opticom Technologies Inc. “L” Series DVR

## 3) Sensor Detection Recording Schedule

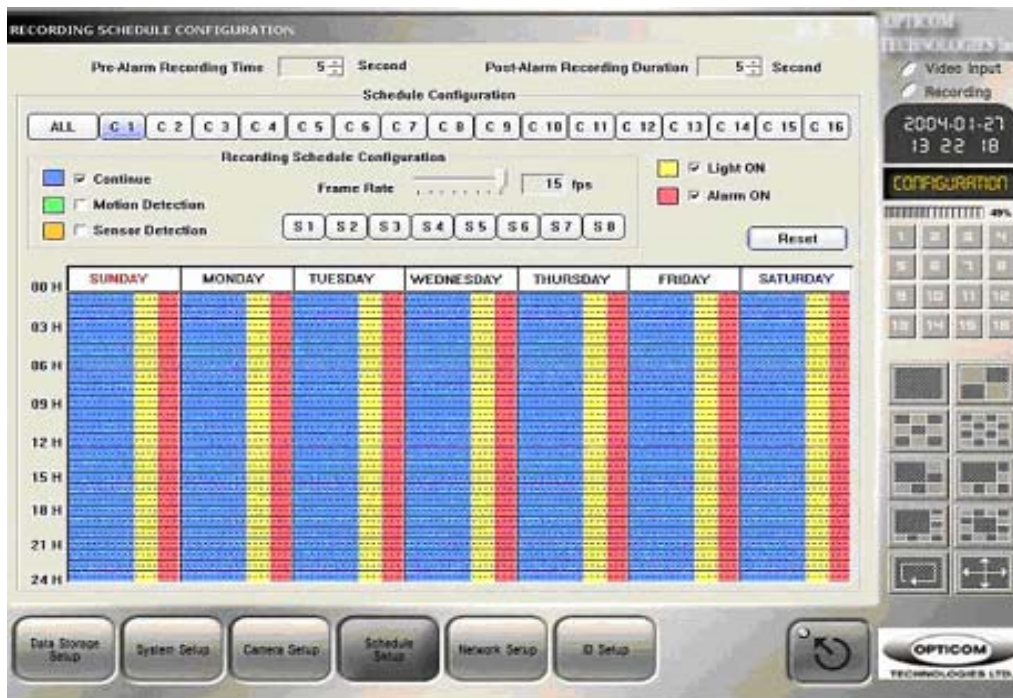


## 4) Motion & Sensor Detection Recording Schedule

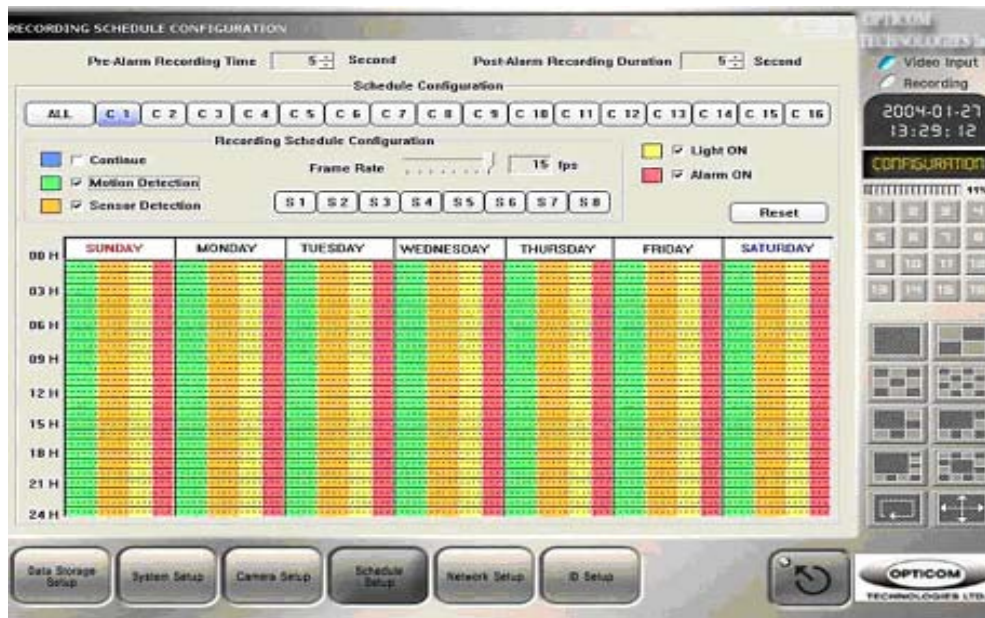


# Opticom Technologies Inc. “L” Series DVR

## 5) Continue + Light ON + Alarm ON Recording Schedule



## 6) Motion & Sensor Detection + Light ON + Alarm ON Recording Schedule





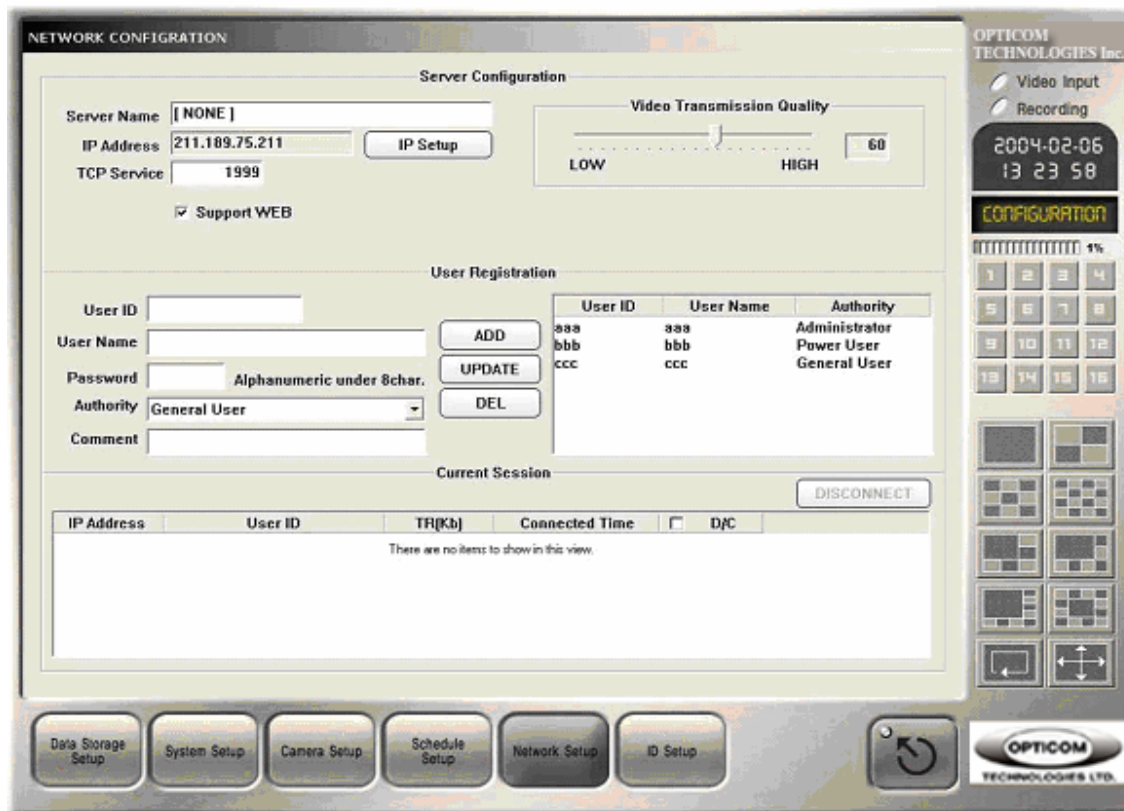
# Opticom Technologies Inc. “L” Series DVR

## 13. Network Configuration

\* Configure the network and clients



Click “Network Setup” button in the main setting screen

The screenshot shows the "NETWORK CONFIGURATION" window. It is divided into several sections: "Server Configuration" with fields for Server Name, IP Address, and TCP Service; "Video Transmission Quality" with a slider; "User Registration" with fields for User ID, Name, Password, and Authority, along with a table of existing users; and "Current Session" with a table of active connections. A bottom navigation bar contains buttons for Data Storage Setup, System Setup, Camera Setup, Schedule Setup, Network Setup, and ID Setup. The right sidebar includes status indicators for Video Input and Recording, a digital clock, and a numeric keypad.

**NETWORK CONFIGURATION**

**Server Configuration**

Server Name: [ NONE ]  
IP Address: 211.189.75.211 [ IP Setup ]  
TCP Service: 1999  
☒ Support WEB

**Video Transmission Quality**

LOW [ slider ] HIGH 60

**User Registration**

User ID: [ ]  
User Name: [ ]  
Password: [ ] Alphanumeric under 8char.  
Authority: General User  
Comment: [ ]

[ ADD ] [ UPDATE ] [ DEL ]

User ID	User Name	Authority
aaa	aaa	Administrator
bbb	bbb	Power User
ccc	ccc	General User

**Current Session**

[ DISCONNECT ]

IP Address	User ID	TR(Kb)	Connected Time	D/C
There are no items to show in this view.				

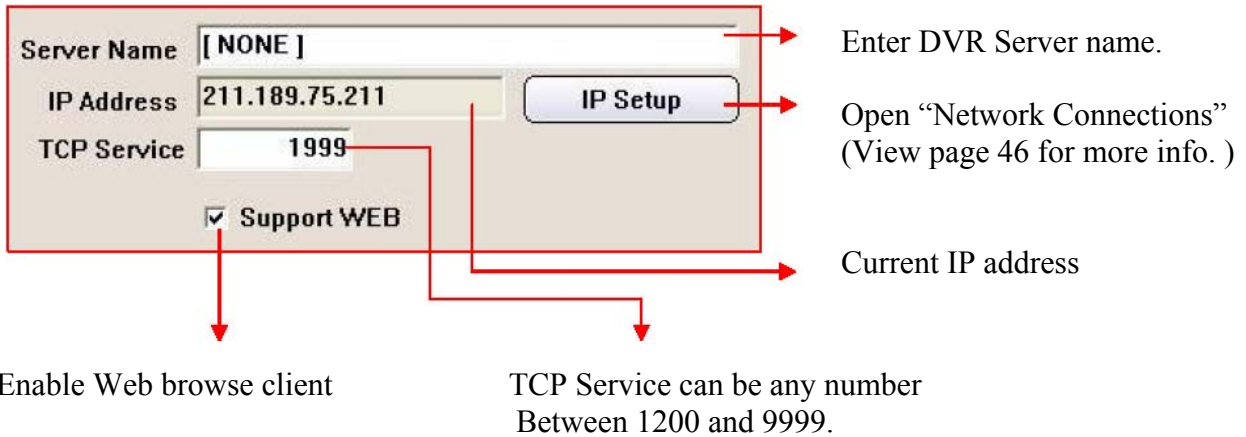
**Bottom Navigation Bar:** Data Storage Setup, System Setup, Camera Setup, Schedule Setup, Network Setup, ID Setup

**Right Sidebar:** Video Input, Recording, 2004-02-06 13:23:58, CONFIGURATION, 1%, numeric keypad, camera icons, OPTICOM TECHNOLOGIES LTD.

# Opticom Technologies Inc. “L” Series DVR

## 13.1 Server Configuration

□.\* Server Name, IP Address, Client Video Transmission Quality configuration.

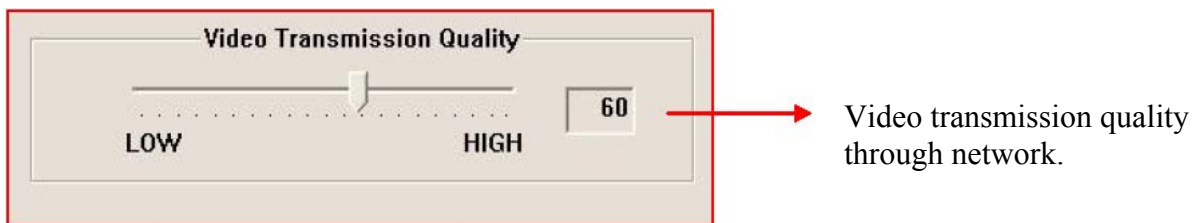


The screenshot shows the 'Server Configuration' window with the following fields and annotations:

- Server Name:** [ NONE ] (Annotation: Enter DVR Server name.)
- IP Address:** 211.189.75.211 (Annotation: Open “Network Connections” (View page 46 for more info. ))
- TCP Service:** 1999 (Annotation: Current IP address)
- Support WEB:** ☒ (Annotation: Enable Web browse client)
- IP Setup:** Button (Annotation: TCP Service can be any number Between 1200 and 9999.)



The screenshot shows the 'Server Configuration' window with the 'Video Transmission Quality' slider set to 60. The slider ranges from LOW to HIGH. The 'Support WEB' checkbox is checked.



The close-up shows the 'Video Transmission Quality' slider set to 60. The slider ranges from LOW to HIGH. An annotation points to the slider: Video transmission quality through network.

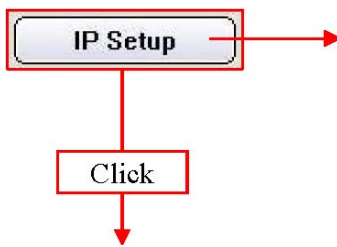


- TCP Service can be any number between 1200 and 9999.

- Recommended Video Transmission Quality is 60.

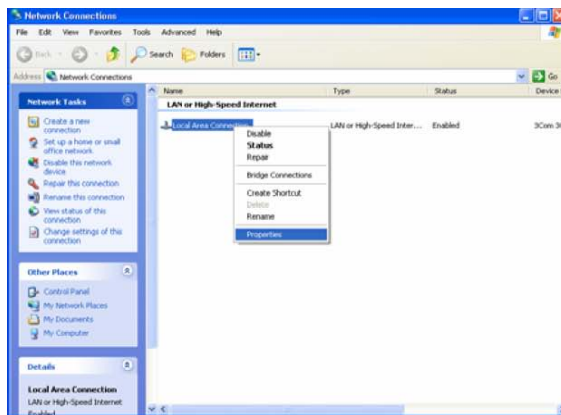
Video streaming performance is dependant on network capability. Too high of a setting might cause undesirable results.

# Opticom Technologies Inc. “L” Series DVR



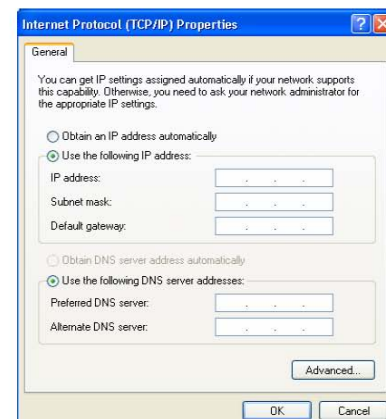
Open “Network Connections” window to  
configure network.

**Step 1) Right click on Local Area Connection  
And click “Properties”.**



**Step 3) Fill in appropriate values in the  
following window. Click “OK”**

Click “OK”



**Step 2) Select “Internet Protocol (TCP/IP)” and click “Properties”**



- \* This example shows connection with Local Area Network.
- \* Contact your ISP or network administrator to obtain information needed on this page.

# Opticom Technologies Inc. “L” Series DVR

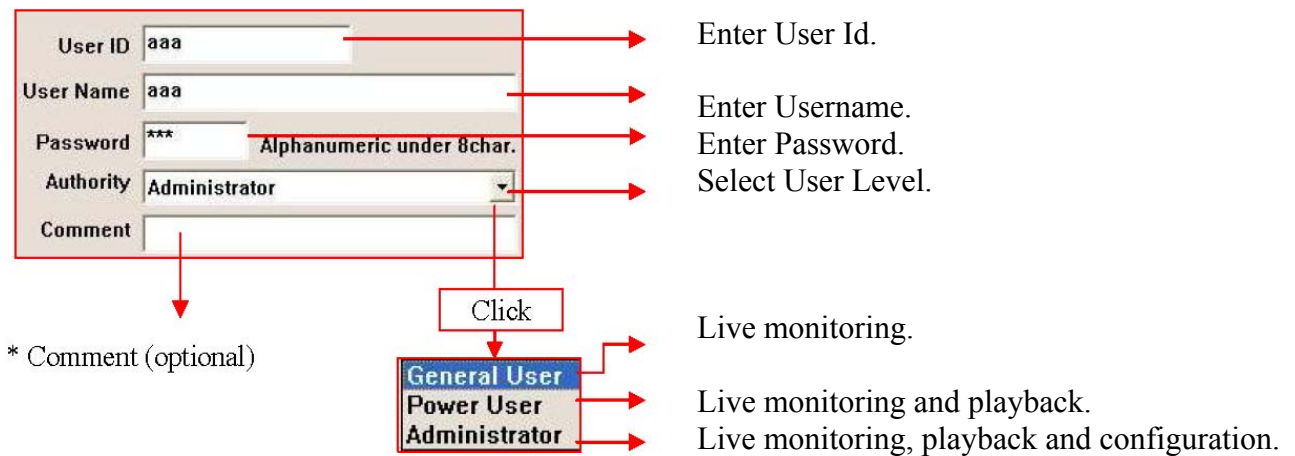
## 13.2 User Registration

\* Enter ID and Password for Client to connect to Server.



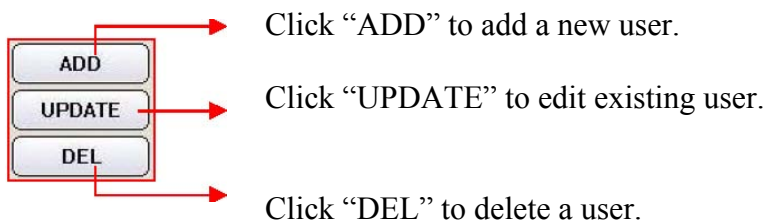
The 'User Registration' form contains input fields for User ID, User Name, Password (with a strength indicator 'Alphanumeric under 8char.'), Authority (a dropdown menu), and a Comment field. To the right of the form are three buttons: ADD, UPDATE, and DEL. Further right is a table showing the list of registered users.

User ID	User Name	Authority
aaa	aaa	Administrator
bbb	bbb	Power User
ccc	ccc	General User



This diagram shows the form with red arrows pointing to specific fields and buttons, each with a corresponding instruction:

- User ID: Enter User Id.
- User Name: Enter Username.
- Password: Enter Password.
- Authority: Select User Level.
- Click (button): Live monitoring.
- General User (button): Live monitoring and playback.
- Power User (button): Live monitoring, playback and configuration.
- Administrator (button): Live monitoring, playback and configuration.
- \* Comment (optional): (points to the Comment field)



The buttons ADD, UPDATE, and DEL are shown with red arrows pointing to them from the following instructions:

- Click “ADD” to add a new user.
- Click “UPDATE” to edit existing user.
- Click “DEL” to delete a user.



The table shows the list of registered users with columns for User ID, User Name, and Authority.

User ID	User Name	Authority
aaa	aaa	Administrator
bbb	bbb	Power User
ccc	ccc	General User

\* List of registered users.



- Only registered users are allowed to connect from Client.
- Up to 8 Users can be created.



# Opticom Technologies Inc. “L” Series DVR

## 13.3 Current Session

\* Shows current Client connection and Client’s information.

Current Session					
DISCONNECT					
IP Address	User ID	TR(Kb)	Connected Time	<input checked="" type="checkbox"/>	D/C
211.189.75.212	aaa	172.2	0:00:07	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

\* Current Client’s information.

\* Apply check mark and click  
disconnection of Client

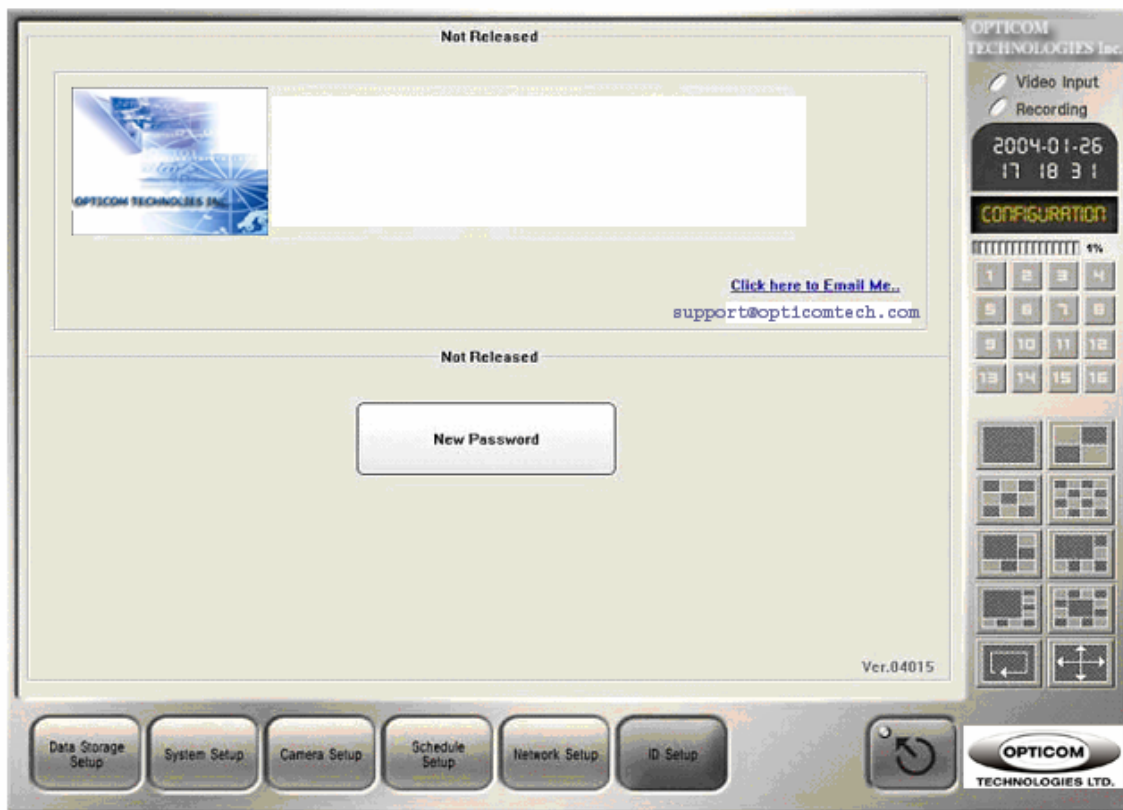
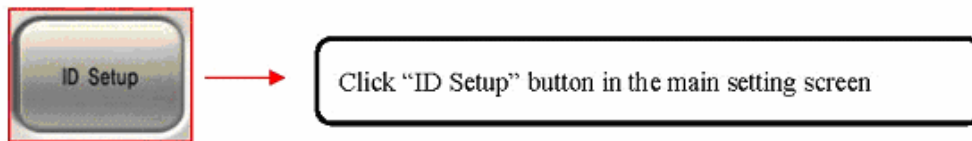


‘DISCONNECT’ to force

# Opticom Technologies Inc. “L” Series DVR

## 14. ID Setup

\* Change Password



See section 9 for more information on Password change.

# Opticom Technologies Inc. "L" Series DVR

## 15. PTZ Setup

\* Operation of PTZ cameras.



Click button in the main screen

The settings of RX controllers for Pan/Tilt Control can be done in the Camera Setup option in the settings

If RX controller is not set up for the Pan/Tilt activation, the Pan/Tilt button will not work



Camera button will light up yellow to indicate PTZ operation is active with that particular camera.

# Opticom Technologies Inc. “L” Series DVR

## 15.1 PTZ Button Description



Pan / Tilt control button :

A button to control the direction of the camera ( Up, Down, Left and Right)

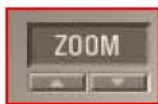


Image Zooming in/out control button:

Used to zoom in and out of selected image



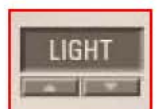
Focus Control button:

Used to control the focus of the selected camera.



Wiper On/Off switch:

Used to run/stop the operation of the wiper for cameras which are installed outside the location.



Outside Light Switch button:

Used to turn On/Off the housing light installed outside.



Power switch button:

Used to turn on/off power of peripherals like a fan.



Set/release button at the starting/end point:

Setting/releasing the starting and ending point of the automatic-turning of the camera.



Automatic-turning switch:

Used to start/stop the auto-turning base

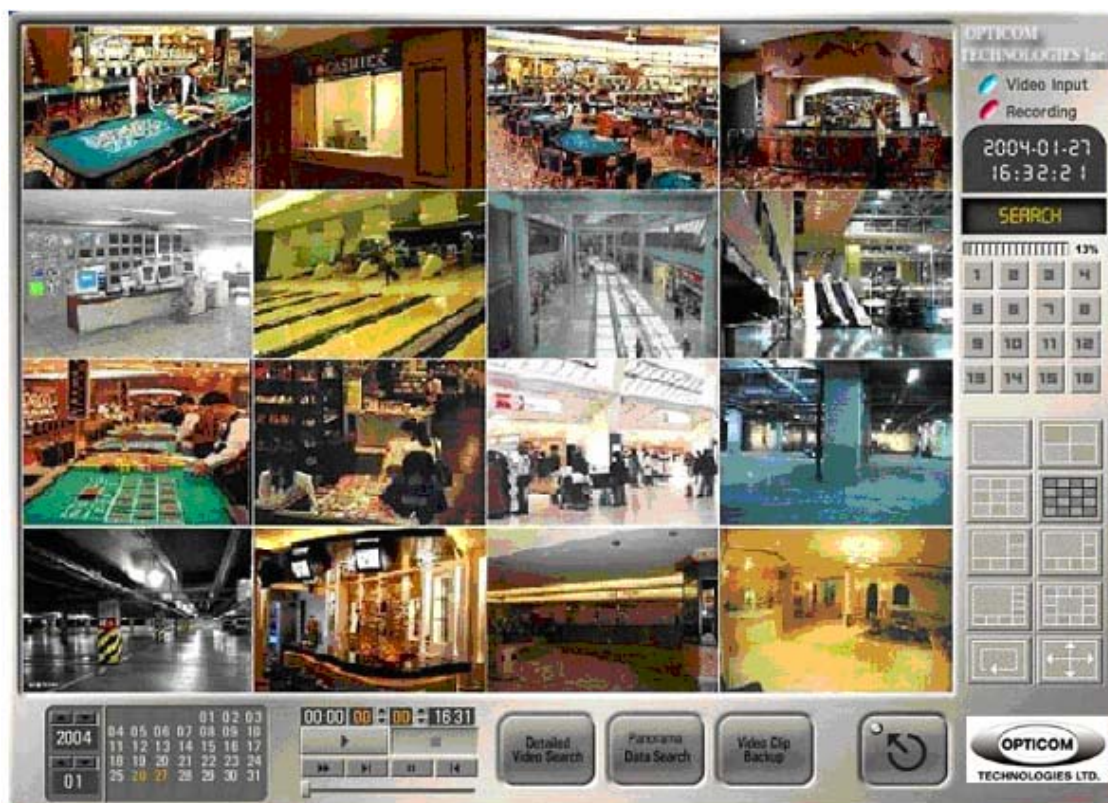
# Opticom Technologies Inc. “L” Series DVR

## 16. Recording Data Search

\* Playback, Search and Back up recorded data.



Click “Search” icon on the main monitoring screen to get to the “Search” screen





# Opticom Technologies Inc. “L” Series DVR

## 16.1 Calendar & Playback



### Calendar

Select the Year and month of interest, then the color coded dates are shown.

06

White: Video is not recorded

23

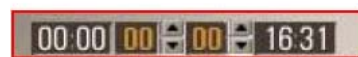
Orange: Video is recorded

01

Red: The date currently selected for search

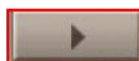


In order to playback, select the camera and time period for playback using the calendar and video search map in advance



### \* Time Set Control :

Jump to the time set by this control. The time is limited to the range you selected earlier.



**Play:** Play the selected video



**Fast Play:** Fast forward play the selected video



**Next Image:** Go to next image frame.



**Pause**



**Random Access Slider:**

As the slider moves, the video plays in high speed. So, you can skim over the entire selected video to find out events of interest.



# Opticom Technologies Inc. “L” Series DVR

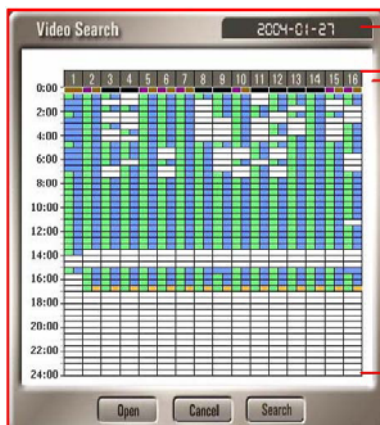
## 16.2 Recorded Data Search Window Example



\* Click on the desired day for playback.



Click on the date of interest, and the following dialog box will appear.  
Select the cameras and time periods of interest in the camera/time map and  
click “Open” button. Then video playback starts.  
You cannot select a camera and time periods which have no recorded data.



Display the selected date

Denotes camera number

\* Video recording status map shows the video recording status; the column denotes channels and the row denotes the time.

One row represents a 30 minute time slot. You can select time-camera zones by using the keyboard or dragging the mouse. When you use the keyboard, the starting time is set by the up/down arrow key with the SHIFT key, and the stop time by the up/down arrow key with the CTRL key.



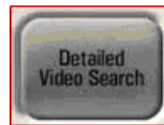
\* Precision Search by minute

☒ All  
☐ Motion  
☐ Sensor

Right click within 60 minute search window to select different type of recording to be displayed.

# Opticom Technologies Inc. “L” Series DVR

## 17. Detail Search

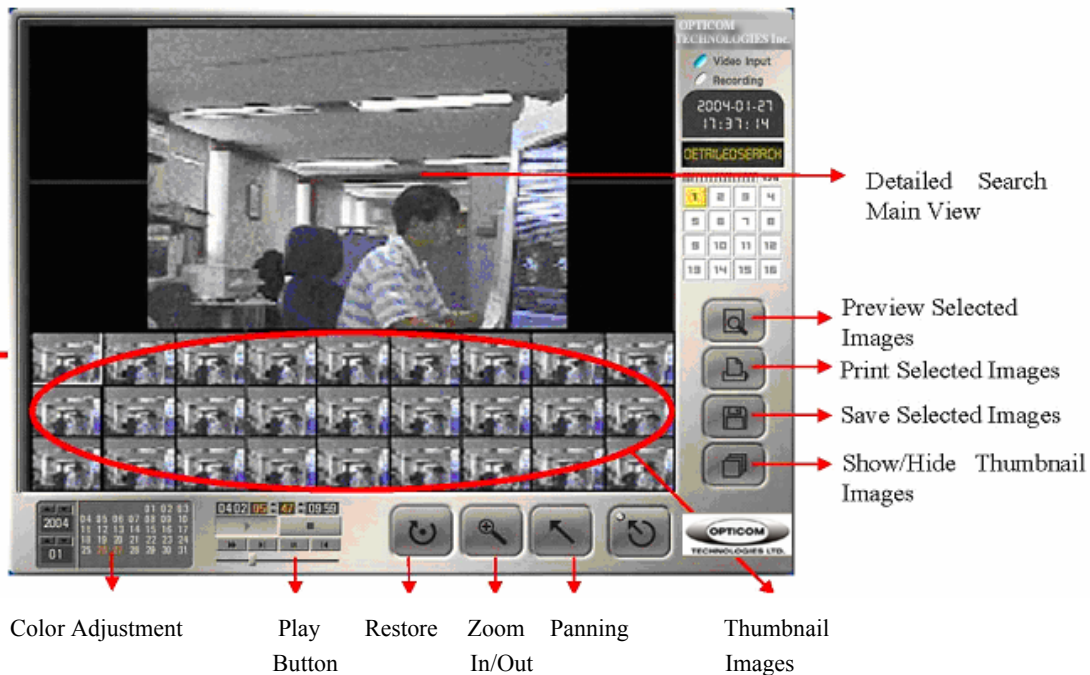


Click the “Detailed Video Search” icon to display Detailed Search Screen.



Detailed search is performed on a specified channel.  
If you start playing, the video channel is played on the main view and the snapshot pictures appear on small views below it (also called thumbnail images).  
If you stop the playback, the still image is on the main view. Double clicking a certain thumbnail image lets the image appear on the main view.  
This function enables a user to scrutinize frame by frame.

### 17.1 Detailed Search Screen



# Opticom Technologies Inc. “L” Series DVR

## 17.2 Digital Zoom In/Out and Image Enhancement



### **Restore:**

The image is restored to its original state. All the zooming and moving actions are rolled back.



### **Zoom In/Out:**

With the zoom in/out icon selected, place the cursor on the image region you want to zoom in on and drag it to the right. The region is zoomed in. Dragging to the left performs zoom out.



[Zoom In]



[Zoom Out]



### **\* Panning :**

With the Panning button selected, place the cursor on the image region you want to move and drag it the direction you want to move. Then the image moves.



[Move Up/Down]



[Move Left/Right]

# Opticom Technologies Inc. “L” Series DVR

## 17.3 Still Image Print & Save



Please stop the playback in order to print the still images you searched.

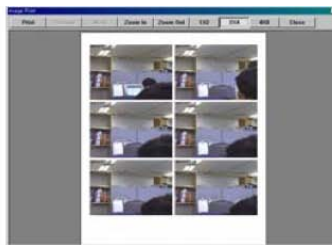


### Preview Selected Image:

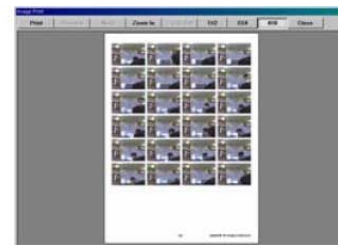
Preview the selected image. Here, you can set up the print layout



[ 1x2 Layout]



[ 2x4 Layout]



[ 4x8 Layout]



### Selected Print:

Print the selected image.

You can preview them with the “Preview” function.



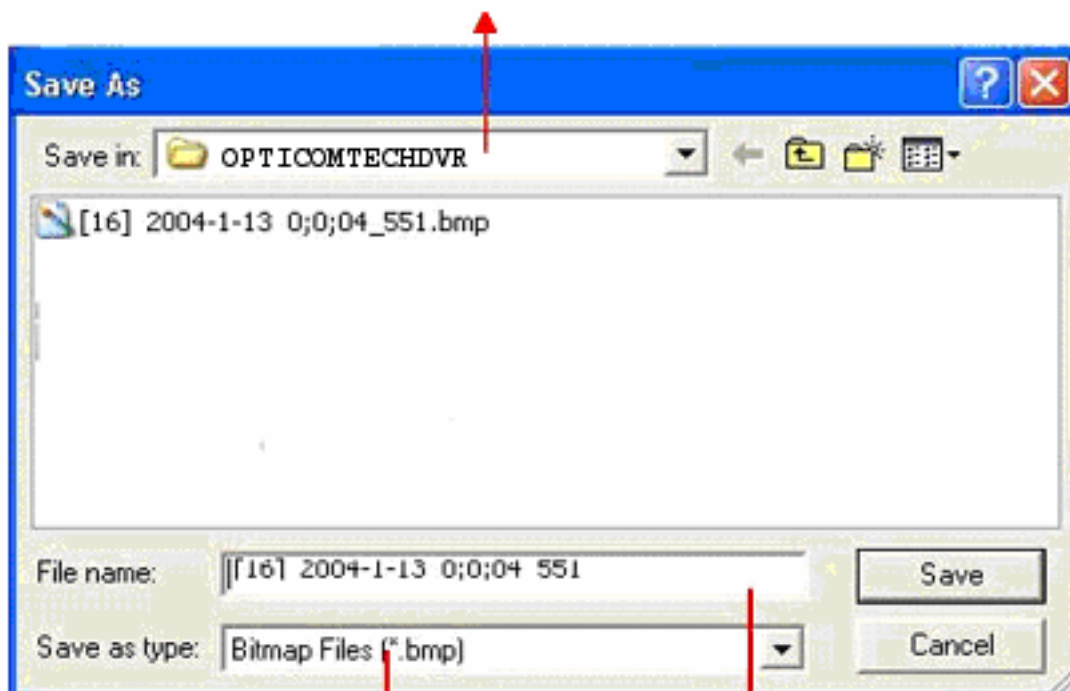
“Print” is available when the default printer is appropriately configured.

# Opticom Technologies Inc. “L” Series DVR



## Save selected image:

Save the selected image onto a disk.



Select the image file format (BITMAP or JPEG)



File name can be changed.



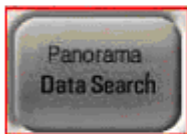
## Show/Hide Thumbnail Image:

Show or hide the thumbnail images on the screen



# Opticom Technologies Inc. “L” Series DVR

## 18. Panorama Data Search



Click the “Panorama Data Search” icon to open the Panorama Search Screen.



Once date and time is selected, cameras 1 – 4 is displayed as default.  
(See section 16.2 for Search details)



### \* Screen Information

- Each screen is displayed in 1 second increment.
- Click on camera numbers on right which will turn yellow to display that camera on the main screen.
- Numbers on the screen represent:  
Camera Number, Number of Frames and Time.



- Double click during Panorama Search to pause and double click again to continue playback.
- During pause, right mouse click to zoom.



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# Opticom Technologies Inc. “L” Series DVR

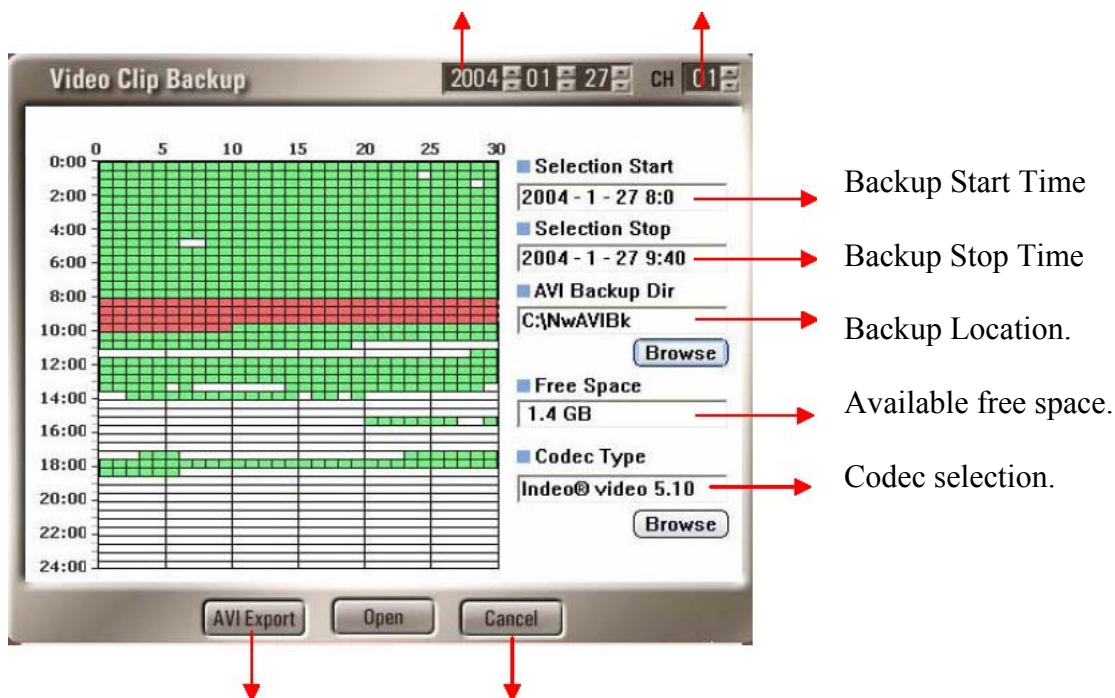
## 19. Video Clip Backup



Click the “Video Clip Backup” icon.  
Then the Video Clip Backup” Popup.

**\* Year, Month and Date :**  
Select the date of the video  
on which a video clip is made.

**\* Channel Select :**  
Select the channel of the video on  
which a video clip is made..



**\* Make AVI File:**  
Make an AVI file for  
Selected time period

**\* Ouit Backup**  
Quit backup operation

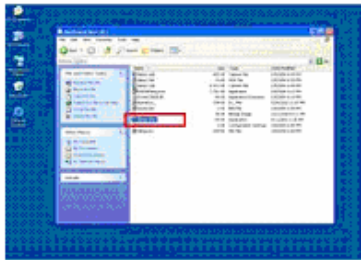


- Click “Browse” under AVI Backup Dir to change the export directory.
- Codec Type has to be selected for AVI export.  
Click “Browse” under Codec Type to select.  
( Recommend “Microsoft Video 1”.)
- When lengthy data is exported (longer than 10 minutes), export process might take long time and could affect overall performance of the DVR.

# Opticom Technologies Inc. “L” Series DVR

## 20. Client Program Installation

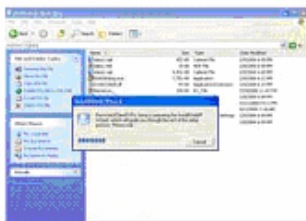
Step 1) Insert Opticom Application CD into the CD ROM drive. → Open “My Computer” → Double click “D:/Client/Setup.exe”



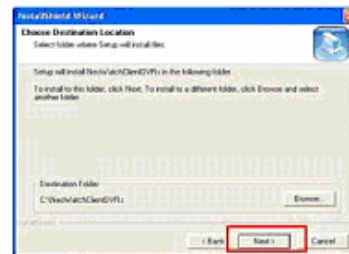
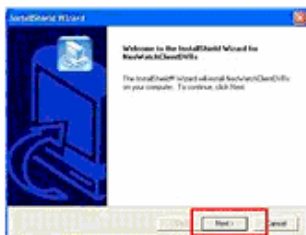
Step 2) “OpticomDVR Client Install” click



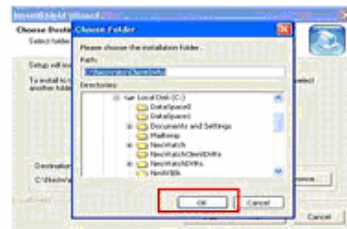
Step 3) Program Installation Wizard



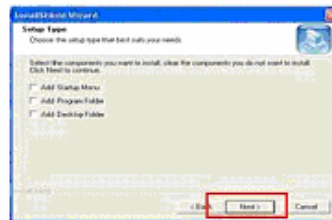
Step 4) Click “Next” to continue



Step 6) Click “OK” to continue



Step 7) Select desired options and click “OK”



Step 8) When installation is complete, click “Finish” to reboot the system.



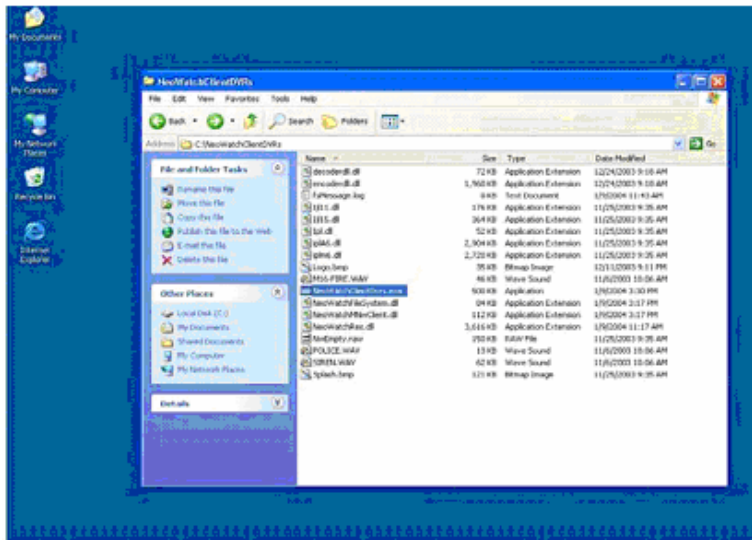
**Caution !!**

**Make sure your PC is virus free before installing any software.**

# Opticom Technologies Inc. “L” Series DVR

1. **21. Remote Monitoring**
2. **21.1 Starting Client Program**

**Step 1)** “My Computer” ➤ double click “C:/OpticomtechDVRs/OpticomTechdvr.exe”



Client executable shortcut can be added to the desktop, startup and program folders.  
(see section 20. Client Program Installation for details.)

**Step 2)** Click “Setup” button





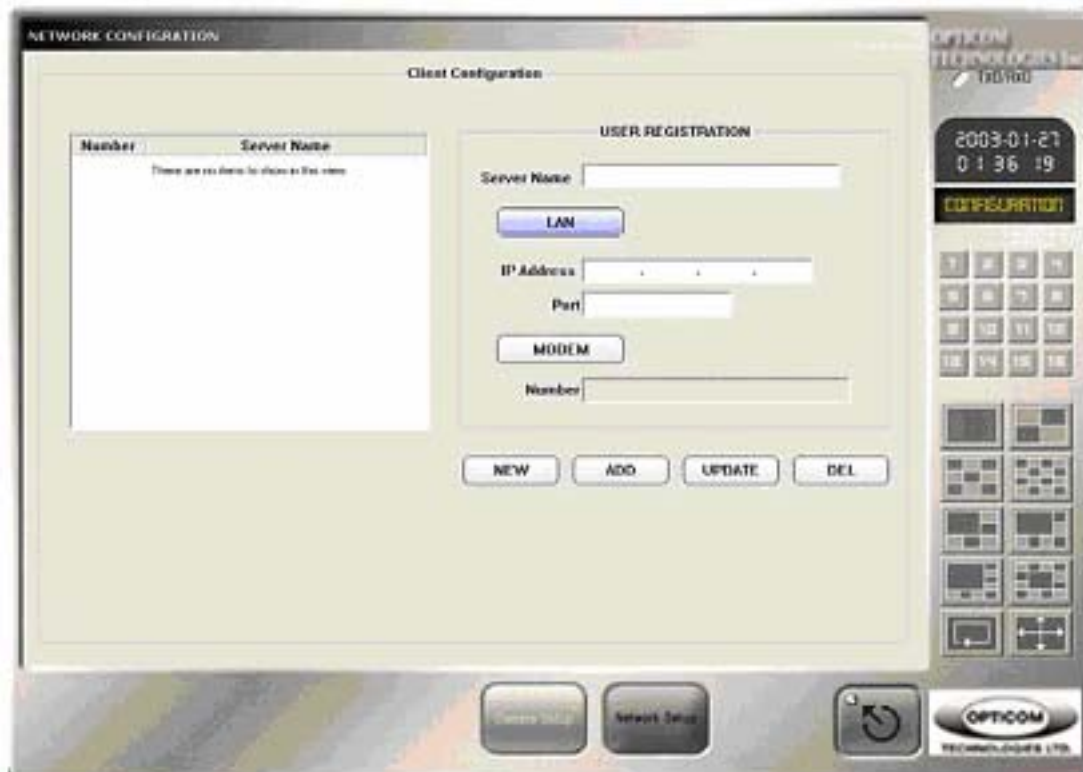
# Opticom Technologies Inc. “L” Series DVR

**Step 3)** Enter password and click “Enter”



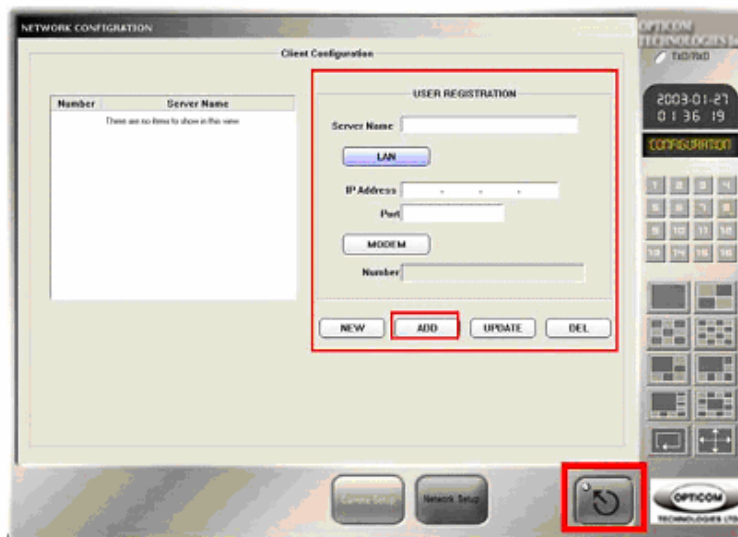
Default password for Client is “0”. To change the password, click “New Password”

**Step 4)** Following window will open once password is entered.



# Opticom Technologies Inc. “L” Series DVR

**Step 5)** Enter Server information to the screen below and click “ADD”. Click on Exit Button at the bottom to exit.



“User Registration” information has to match at the server to connect using Client program. Connection information is available at the “Network Setup” in the Server.

**Setup 6)** Click Connect Button to connect.





# Opticom Technologies Inc. “L” Series DVR

**Step 7)** Enter User ID and Password and click “CONNECT” to start Client program.



Only registered users can login. See section “13.2 User Registration” for more information.



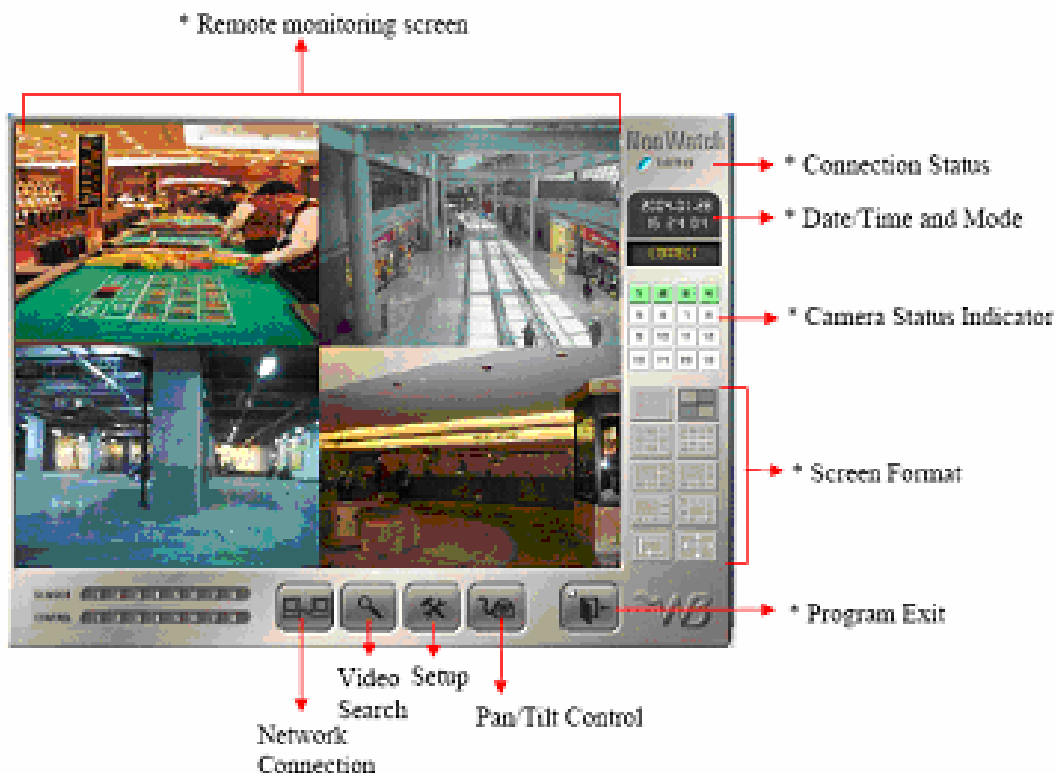
## < Client User Levels >

- **General User: Live monitoring only.**
- **Power User : Live monitoring, playback and PTZ control.**
- **Administrator : Live monitoring, playback, PTZ control, and access to settings.**

# Opticom Technologies Inc. “L” Series DVR

## 21.2 Client Features

### 21.2.1 Main Client Screen Description



- When logged in as a General User, Video Search, Pan/Tilt Control will be disabled.



- It is strongly recommended to use ATI comparable VGA cards. Depending on the model, it will not provide proper performance.
- You must set system resolution as 1024×768 with 32bit color quality before running application

# Opticom Technologies Inc. “L” Series DVR

## 21.2.2 Recorded Data Search in Client



Click “Search” icon on the main monitoring screen to get to the “Search” screen

### Playback Screen



\* Calendar

\* Video Playback Control



- Cannot view Playback when logged in as a General User.
- Playback and search method is identical to Server.  
(see section “16. Recording Data Search” for more information)

# Opticom Technologies Inc. “L” Series DVR

## 21.2.3 Server Setting change in Client



Click on Settings button and enter password to enter Settings menu. (Default Password is “0”)



- General User and Power User does not access right to Camera Setup, which is disabled.
- Only Camera Setup settings are changeable through Client software. (see section “11. Video Channel Configuration” for more information.)
- Any changes made through Client software will be reflected on the Server. Please proceed with caution.



# Opticom Technologies Inc. “L” Series DVR

## 21.2.4 PTZ control through Client Software



Click button in the main screen



- General User does not have access right to PTZ control.
- PTZ control in Client software is identical to controls in the Server.  
(see section “15. PTZ Setup” for more information.)



# Opticom Technologies Inc. “L” Series DVR

## 22. Web Client

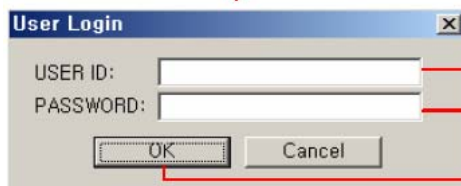


Web Support needs to be enabled at the Server.  
(see section “13.1 Server Configuration” for more information.)



Click

\* Click on S01~S16 to see the particular split screen. Click multiple times to rotate through the cameras.



\* Enter User ID

\* Password

\* Click “OK”

# Opticom Technologies Inc. “L” Series DVR

## 23. Trouble Shooting Guide

### 1) ‘No Video Signal’ message on the screen.

- Check camera input connector.
- Check camera power supply.

\* Contact camera supplier for further troubleshooting.

### 2) Frozen Screen or screen shake in black and white.

- Check video input type (NTSC / PAL).
- Check if the connected camera is NTSC or PAL.



- ### 3) DVR time does not match current time.
- DVR time is set by Windows time.
  - Set time in BIOS or Windows to correct time (Windows time can be set in NeoWatch under Settings.)
  - Changing time during recording could damage the data.



- ### 4) ‘Neo Watch’ image instead of video.
- Check if that particular camera is enabled.
  - Check if that particular camera’s display is enabled.



# Opticom Technologies Inc. “L” Series DVR

## 5) Sensor malfunction.

- Check for secure sensor connection at the sensor input.
- Check power supply to sensor.
- Check if that particular sensor is enabled in the setting.
- Check if sensor type is entered correctly.



## 6) Alarm malfunction with motion detection.

- Check for secure alarm connection at the alarm input.
- Check power supply to Alarm.
- Check if that particular alarm is enabled in the setting.



- Check if motion detection region is set for that particular camera. -Check if Alarm is enabled in the Schedule for that particular camera.

## 7) Alarm malfunction when connected to sensor.

- Check sensor (see number 5)
- Check alarm (see number 6)

## 8) Alarm operation is too short.

- Increase Alarm operation time up to 180 seconds.

# Opticom Technologies Inc. “L” Series DVR

## 9) Motion detection malfunction.

-Check if motion detection region is set for that particular camera. –Motion detection region setting instruction

- \* Select desired PEN size and hold down mouse button and ‘paint’ desired area. (Set 0 – 10 for sensitivity. Recommend ‘8’)



## 10) Display screen properties change. (color, brightness, etc.)

-Slide video property bar to set desired setting. (default setting is usually optimal)

## 11) No e-mail notification for motion detection.

- Check if motion detection region is set and AlarmEmail is checked.



-Check if e-mail address is correct. -Check if e-mail server setting is correct. (contact your network administrator or your ISP for further assistance.)

## 12) No e-mail notification for sensor detection.

- Check if sensor is operating correctly and AlarmEmail is checked.
- Check if e-mail address is correct.
- Check if e-mail server setting is correct.

(contact your network administrator or your ISP for further assistance.)

# Opticom Technologies Inc. “L” Series DVR

## 13) No recording.

-Check schedule for desired recording schedule.

-Recording schedule setting instruction. \* Continuous Recording: Continuous recording during selected day and time. \* Motion Detection Recording: Recording only when motion is detected during selected day and time.

\* Sensor Recording: Recording only when sensor is triggered during selected day and time.



**14) No recording in Continuous mode.** -Check recording schedule for desired recording day and time.

**15) No recording in Motion Detection mode during movement.**

-Check sensitivity.

-Check recording schedule for desired recording day and time.

**16) No recording in Sensor Recording mode when sensor is triggered.** -Check sensor setting and type. -Check camera and sensor link selection. -Check recording schedule for desired recording day and time.

**17) Poor recording quality.**

-Increase Video Quality in setting.





# Opticom Technologies Inc. “L” Series DVR

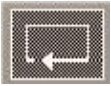
## 18) Choppy playback.

-Increase frame rate in the Recording Schedule. (Increasing the frame rate decreases the total recording time. Check required frame rate and total recording time and adjust appropriately.)



## 19) No display screen rotation even when the rotation time is set.

-Check if rotation button is pressed in the main screen.



## 20) No video in the external analog monitor

- Check for secure connection between the monitor and DVR.
- Check power supply of the monitor.
- Check if Analog Video is enabled.



## 21) Random display of large screen in the main screen.

- Check if Popup is enabled.
- Popup feature will show the channel where motion is detected in the main screen.

# Opticom Technologies Inc. “L” Series DVR

## **22) PTZ control malfunction.**

- Check for secure connection of the PTZ camera.
- Check for correct controller connection.
- Check for correct PTZ controller type and protocol.
- Check for correct COM port selection for that particular PTZ controller.

(contact camera supplier for further troubleshooting.)

## **23) Cannot view playback or change settings through Client software.**

- Check for appropriate user level for playback and settings configuration. -Change the user level to desired level in the Server.



# Opticom Technologies Inc. “L” Series DVR

## 24. Customer’s Responsibility

This product and its components will perform reliably only when operated and maintained in accordance with the instructions contained in this manual, accompanying labels, and/or inserts. A defective product should not be used. Parts which may be broken or missing or are plainly worn, distorted or contaminated should be replaced immediately with clean, genuine replacement parts manufactured by or available from Opticom Technologies Inc. The responsibility of Opticom Technologies Inc for a defective product is limited by the warranty set forth in this manual. Should repair or replacement of this product become necessary after the warranty period, the customer should seek advice from Opticom Technologies Inc prior to such repair or replacement. If this product is in need of repair it should not be used until all repairs have been made and the unit is functioning properly and ready for use. The owner of this product has sole responsibility for any malfunction resulting from improper use or maintenance, or repair by anyone other than Opticom Technologies Inc, and from any malfunction caused by parts that are damaged or modified by anyone other than Opticom Technologies Inc

## 25. Manufacturer’s Responsibility

Opticom Technologies Inc or its authorized representative is responsible for the effects on safety, reliability and performance of Vista “L” Series DVR only if:

Repairs or modifications to Opticom Technologies Inc. are made by OPTICOM TECH authorized personnel.

The electrical installation provided for the Opticom Technologies Inc. at the customer site complies with the appropriate local electrical regulations. For example, in Europe, the

“Regulations for the Electrical Equipment of Buildings” published by the Institution of Electrical Engineers shall be followed.

Opticom Technologies Inc. is used in accordance with the instructions for use.

# Opticom Technologies Inc. “L” Series DVR

## 26. Safety Summary

Two labels are used in this manual to identify potentially dangerous conditions or procedures.

### **WARNING or CAUTION**

WARNING and CAUTION messages must be strictly observed.

WARNING identifies conditions or practices that may present danger to the user.

CAUTION identifies conditions or practices that could result in damage to the equipment.

The following safety precautions must be observed during the operation of the system to avoid the possibility of injury.

### **WARNINGS**

This system is not explosion-proof. Therefore, it is not to be used in the presence of flammable materials.

This equipment utilizes a three-wire power cord. The chassis is earth-grounded. Inspect the power cords

periodically for fraying or other damage.

Do not operate the apparatus with a damaged power cord or plug.

### **CAUTIONS**

Be sure the switches to the main system, monitor, and cameras are OFF and they are unplugged before you begin cabling.

Be sure power is OFF when connecting or disconnecting the camera. Do not connect or

disconnect the camera when power is on; Damage may result.

## **Usage**

- 1) Power Cord: Make sure that it is not placed under any heavy objects, such as a monitor.

To disconnect the cord, pull it out by the plug. Pulling the cord itself may cause stripping or cutting, which may result in electric shock.

To avoid electric shock, always dry your hands before plugging or unplugging

# **Opticom Technologies Inc. “L” Series DVR**

- 2) Always keep the DVR off the foreign objects.
- 3) Any modifications such as changing the HDD , installation of modem, etc. will be recommended to be serviced through OPTICOM TECH Co.,Ltd or any authorized branch office. Modifications conducted by any unauthorized parties may cause void in the warranty and improper after service.
- 4) In case of any problems while using the product, it is prohibited for any unauthorized personnel or end-user to take the unit apart and/or re-install the unit. Must contact any OPTICOM TECH office for all after service and technical support
- 5) A protective seal will be placed on the DVR for various reasons and shouldn't be tampered with. It may void the warranty and a standard after service of the DVR. will not be conducted if the seal is tampered with.
- 6) Never open and modify the DVR while it is on
- 7) Each DVR has an AIR FILTER on the front right side to prevent dust and is installed for better performance of the fan. For any normal condition, cleaning the air filter is required only once every 2 weeks depending on the amount of dust in the area which may require frequent cleaning of the filter To replace a damaged air filter, contact the customer service or the referred agents
- 8) Error may occur during natural disasters such as thunder and lightening storm.
- 9) If not used for on extended period of time, keep the DVR unplugged, for safety.

## **Setup**

- 1) Heat

Do not install DVR in an air-tight area. For the air circulation, make sure the holes on the DVR case are not covered or blocked. Increasing the temperature of the DVR from a low air circulated area, it may cause the system to go down.

Do not remove the rubber pegs off the DVR . These are for the air circulation and to protect the



bottom of the unit.

- 2) To prevent any instability. Do not drop or place materials such as heavy objects, liquids, high voltage materials, etc. The HDD is weak in taking shock.
- 3) Installation of DVR must be made by OPTICOM TECHNOLOGIES INC. or the authorized agents.

## **Opticom Technologies Inc. “L” Series DVR**

### **Handling**

- 1) The products weigh 23kg and is very fragile. Dropping a DVR may cause the unit to break or may cause serious injuries. Must handle with extreme care when handling the DVR out of box.
- 2) When shipping the DVR to a far location, please pack the DVR with the appropriate padding and other protective materials as is. Shipping or carrying the DVR unit without its protective packaging materials, may cause damage to the DVR. HDD is weak in shock
- 3) When returning or shipping the DVR, the units must be packed in the original condition. Damages may be caused to the DVR if packed in other boxes.
- 4) Chemicals : Avoid exposure to insecticide, thinner or other flammables.

**Danger of explosion if battery is incorrectly replaced.**

**Replace only with the same Lithium Battery in the mother Board.**

**Dispose of used batteries according to manufacturer's instructions.**

**Proper use of this device depends on careful reading of all instructions and labels**

**Specifications on the User's Guide are made in February, 2004 and subject to change without notice. Please contact OPTICOM TECHNOLOGIES INC.**

**and/or authorized agents with any questions**